MAINTENANCE MANUAL
406-512 MHz, 100 WATT POWER AMPLIFIER ASSEMBLY
19D424888G14-17, G31-34, G37 AND G38 (MOBILE AND STATION)
19D424895G14-17, G31-34, G38 AND G39 (CONTINUOUS DUTY STATION)

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DESCRIPTION

The PA assembly uses two amplifier modules to provide rated output power. The PA Driver module uses four RF power transistors to provide RF drive to the PA module. The Power Amplifier module consists of four paralleled RF Power Transistors connected by a transmission line splitter arrangement at the input, and a combiner arrangement at the output. R213, located on the PA Driver module, is used to adjust the output power over a range of 30 Watts to rated output power. The power control circuit consists of R213, Q215 and Power Control IC (U201). Included in the PA assembly, is a Low Pass Filter/Antenna Switch module used to suppress undesired harmonic frequency components and provide antenna switching for the receiver and the transmitter.

SUPPLY VOLTAGE

Supply voltage for the PA is connected through power leads from the system board to feed through capacitors C297 and C298 on the bottom of the PA assembly (See Schematic Diagram). C297, C298, C299 prevent RF from getting on the power leads. Diodes CR295 will cause the main fuse assembly to blow if the polarity of the power leads is reversed, providing reverse voltage protection for the radio.

The PA assembly is insulated from vehicle ground to permit operation in positive or negative ground vehicles.

NOTE

In positive ground vehicles, A- "hot" with respect to vehicle ground. Shorting the transmitter PA printed wiring board ground pattern to the radio case may cause one of the in-line fuses to blow.

Centralized metering jack J205 is provided for use with GE Test Set Model 4EX3A11 or Test Kit 4EX8K12. The Test Set meters the Ampl-1 drive (exciter output), power control voltage, driver current, PA current and PA voltage.

CIRCUIT ANALYSIS

RF POWER AMPLIFIER ASSEMBLY

The exciter output is coupled through at 50 ohm RF cable to the PA Drive module input jack J201. The 50 ohm RF input is coupled through a matching network comprised of C206, C207, C208 and W202 to the base of power amplifier Q201.

Part of the RF input is rectified by CR201 and metered at J205-4 through resistor R201. The rectified RF is also applied to the power control IC (U201).

Collector voltage for Q201 is applied direct from the DC power input through collector stabilizing network R205 and L202 and collector feed network L203 and C210.

The 500 milliwatt, 50 ohm output of Q201 is coupled to the base of a second power amplifier Q202 through a matching network consisting of T201, C214, C215, C216 and L204.

Collector voltage to Q202 is controlled by power control IC (U201), Q215 and R213, and is applied through a collector stabilizing network L206 and R206 and collector feed network L205 and C218.

The 6 Watt, 50 ohm output of Q202 is coupled to the base of Q203 through C219 and the matching network of T202, C222, C224, C225 and L207. The collector voltage to Q203 is coupled through collector stabilizing network L209 and R214 and collector feed network L208 and C228.

The 20-Watt output of Q203 is coupled through an impedance matching network (C229, C230, C233 and T203) that matches the output impedance of Q203 to the input impedance of driver amplifier Q204 through a 50-ohm micro strip (W204) and input impedance matching network T204, C234, C235 and C236.

The collector voltage for Q204 is coupled through collector stabilizing network L212 and R208 and collector feed network C239 and L211. Collector current for Q204 is metered across tapped manganin resistor R212. The reading taken in position F on the 15-Volt scale with the High Sensitivity button pressed and read as 0-15 amperes full scale.

Following Driver amplifier Q204 is 50-ohm a matching network (C237, C238, and T205) that matches the 40 Watt output of Q204 to the 50-ohm input of the PA module, through 50-ohm micro strip W207 and a 50-ohm strap W211.

NOTE

For MASTR® II High Power Solid State applications where "Combining" is used, four new Power Amplifiers (19D424895G40-G43) have been added. The new PA's do not use the 40 Watt modules. Two separate PA's are used with a combiner panel to sum the power output of each PA.

On the PA module, the RF input is applied to the RF power splitter board. The RF power splitter consisting of micro strip transmission line W4201, C4265, C4266, R4201, R4202 and R4203, and has a 50-ohm input and output impedance. The outputs of the power splitter are applied to the four identical Class C Power Amplifiers (Q216 through Q219) via their respective identical matching networks.

Supply voltage for Q216 through Q219 is coupled through identical stabilizing networks and the collector feed networks. Supply voltage is measured in position G on the 15-volt range with the polarity switch in the (-) position (read as 15 volts full scale).

Collector current for Q216 through Q219 is metered across paralleled tapped manganin resistors R210 and R211 located on the PA Driver module. The reading is taken in Position G in the Test 1 position on the 3-Volt scale with the "High" Sensitivity Button pressed, and read as 30 amperes full scale.

The outputs of Q216 through Q219 are coupled through identical matching networks to the RF power combiner board. The RF power combiner consists of micro strip transmission line W4202, R4208, R4209, and R4210, and has a 50-ohm input and output impedance. The combiner adds the outputs of Q216 through Q219, and applies the combined RF output to the Low Pass Filter/Antenna Switch module via W4216. Capacitors C4243 through C4252 provide isolation for ± ground operation.

The input to the Low Pass Filter and to the antenna switch K201 is coupled through the 50-ohm micro strip W4280. The output is applied to the antenna at J203.

WARNING

The RF Power Transistors used in the transmitter contain Beryllium Oxide, a TOXIC substance. If the ceramic, or other encapsulation is opened, crushed, broken or abraded, the dust may be hazardous if inhaled. Use car in placing transistors of this type.

POWER CONTROL CIRCUIT

The Power Control Circuit, located on the PA Driver module, consists of CR201, Power Control IC (U201), RT201, Q215, and R213.

When the transmitter is keyed, rectified RF from CR201 is applied to Switch Q1 of Power Control IC (U201), turning it on (See Figure 1). Turning on Q1 turns on voltage regulator Q2, supplying a constant voltage via Pin 14 to Power Adjust potentiometer R213. R213 through Pin 12 connect to the base of Q5. Q5, Q6 and Q215 operate as an amplifier chain to supply voltage to the collector of Q202 (Ampl-2). The setting of R213 determines the voltage applied to the base of Q5. The higher the voltage at the base of Q5, the harder the amplifiers conduct, supplying more

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collector voltage to Q202. The lower the voltage at the base of Q5, the less collector voltage is supplied to Q202. Reducing the supply voltage to Q202 reduces the drive to Q203 and Q204, thereby reducing the power output of the PA. The power output can be adjusted by R213 from 30 Watts to rated power output.

Temperature protection is provided by Q3, Q4 in IC U201 and thermistor RT201 which is mounted on the PA heatsink. Under normal operating conditions, the circuit is inactive (Q3 is on and Q4 is off). When the heatsink temperature reaches approximately 115°C the resistance of RT201 decreases. This increases the base voltage applied to Q3, turning it off. Turning off Q3 allows Q4 to turn on, decreasing the voltage at Power Adjust potentiometer R213. This reduces the base voltage to Q5 which causes Q6 and Q215 to conduct less, reducing the collector voltage to Q202 (Ampl-2). This reduces the transmitter output power, keeping the heatsink at a maximum of approximately 115°C. When the heatsink temperature decreases below 115°C, the temperature control circuit turns off, allowing the normal transmitter power output.

ANTENNA MATCHING UNIT

The Antenna Matching Unit is used only in continuous duty duplex stations to optimize impedance matching between the power amplifier and the load. It consists of a Pi network (C2-C5 and L1) and a reverse directional coupler. RF from the low pass filter is applied to the Pi network through the reverse directional coupler and then to the duplexer load. The reverse directional coupler permits monitoring the reflected power by connecting a DC voltmeter across TP1 (+) and ground (-). C2 and C4 are tuned for minimum DC voltage which represents minimum reflected Power. L1 may also be pushed toward or away from the filter cover wall to further reduce the DC voltage. C2, C4 and L1 should be alternately tuned until an absolute minimum voltage reading is obtained. The residual voltage reading after tuning may vary from one transmitter to the next depending on output power level, operating frequency and the load.

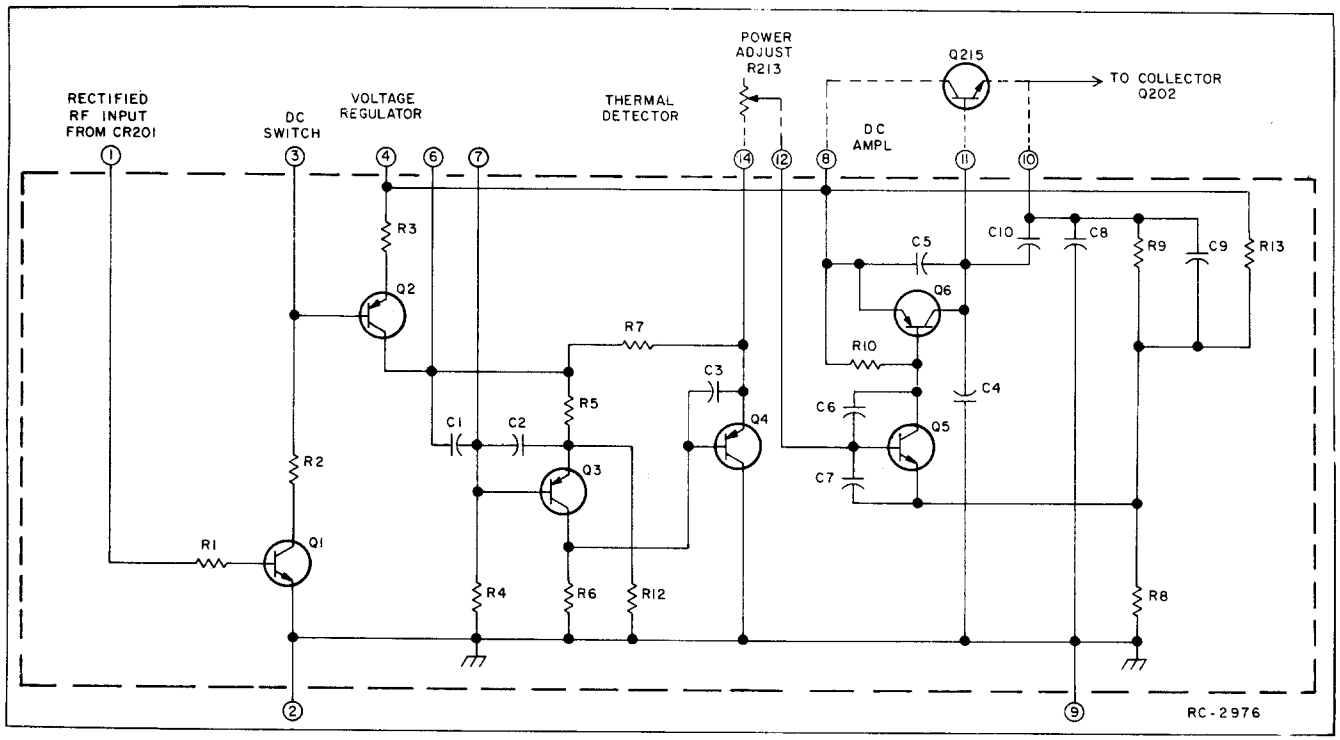

Figure 1 - Power Control IC-U201

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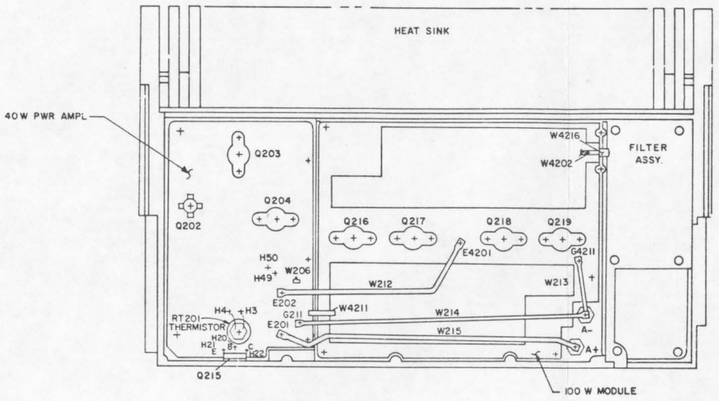
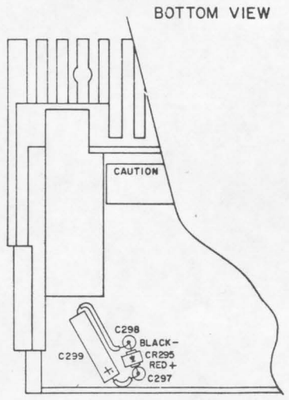
PA ASSEMBLY

TOP VIEW



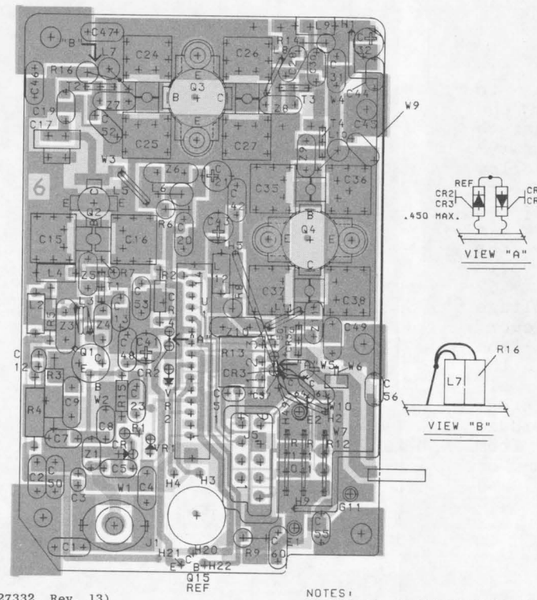
BOTTOM VIEW



(19D424161, Rev. 4)

40 WATT MODULE

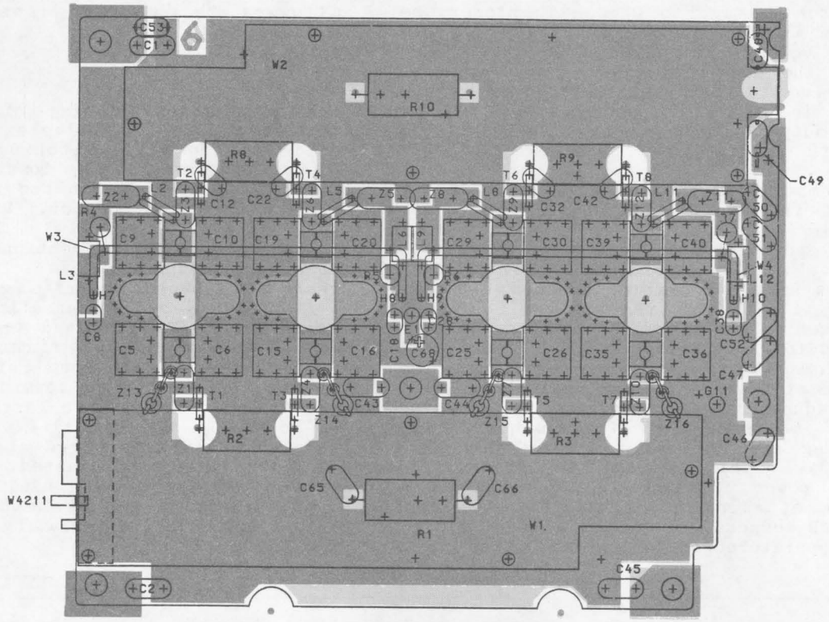
TOP



(19C327332, Rev. 13)
(19B226633, Sh. 1, Rev. 6)
(19B226633, Sh. 2, Rev. 3)

NOTES:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN.FOR COMPLETE DESIGNATION, PREFIX WITH 200 SERIES.EXAMPLE: C1-C201, R1-R201, ETC.
2. C9 USED IN GROUP 5 ONLY. DA JUMPER IN C9 MTG HOLESFOR GROUP 6, 7 & 8.

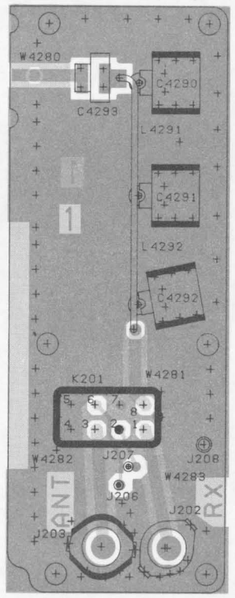
100 WATT MODULE



(19C327331, Rev. 11)
(19B226639, Sh. 1, Rev. 6)
(19B226639, Sh. 2, Rev. 4)

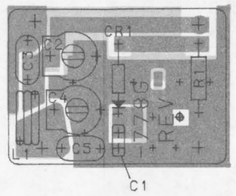
NOTE:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN, FOR COMPLETE DESIGNATIONS PREFIX WITH 4200 SERIES. EXAMPLE:C15-C4215,R1-R4201, ETC.

MOBILE & STATION FILTER BOARD



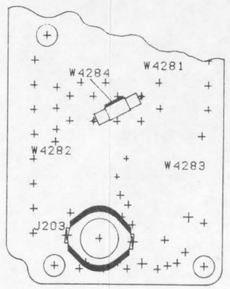
(19C327643, Rev. 1)
(19B227265, Sh. 1, Rev. 1)
(19B227265, Sh. 2, Rev. 1)

ANTENNA MATCHING UNIT



(19B233800, Rev. 0)
(19A143200, Sh. 1, Rev. 0)
(19A143200, Sh. 2, Rev. 0)

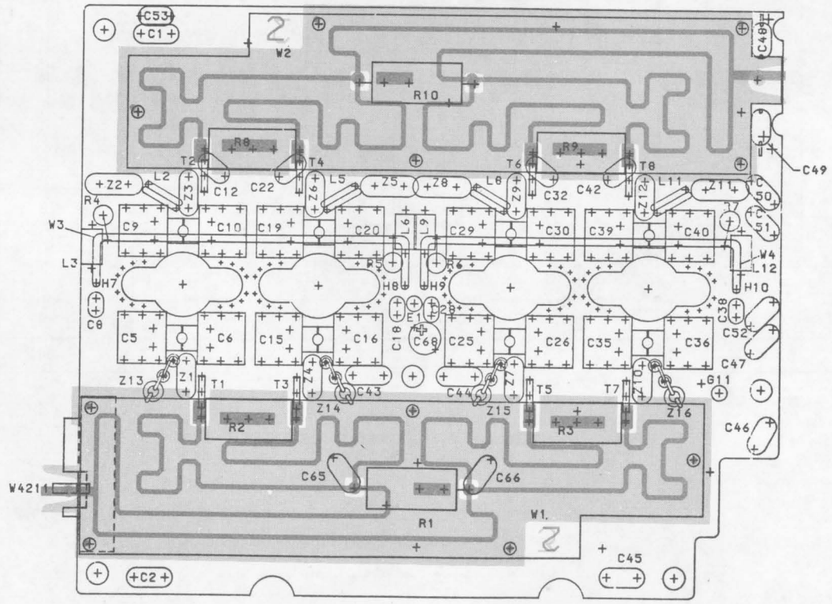
DUPLEX STATION FILTER BOARD



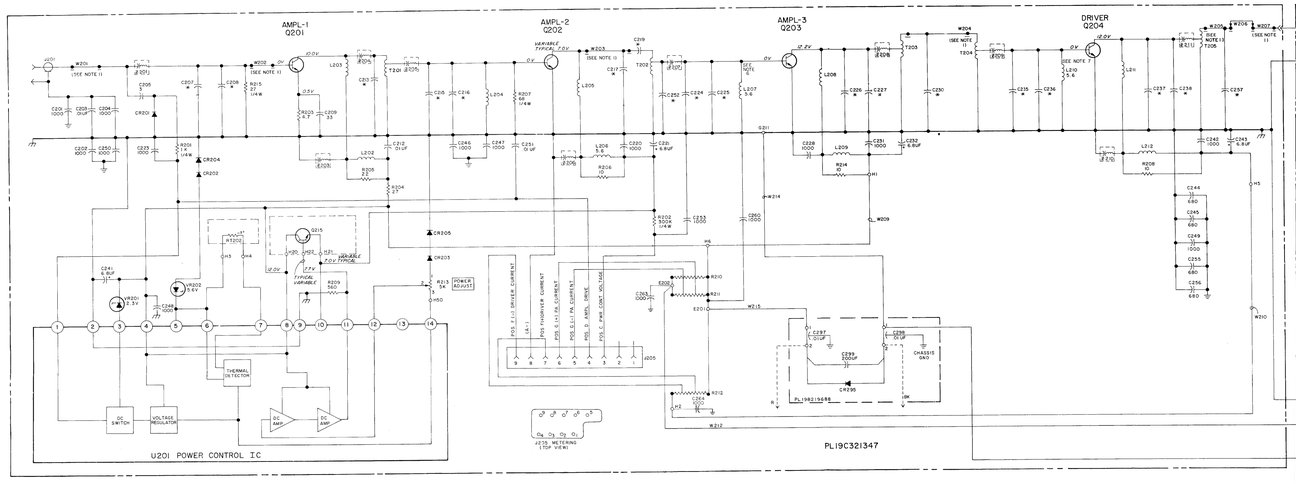
RUNS ON SOLDER SIDE
RUNS ON BOTH SIDES
RUNS ON COMPONENT SIDE

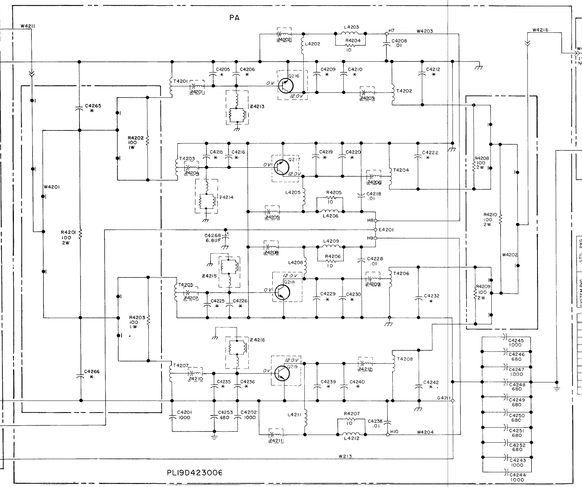
OUTLINE DIAGRAMS

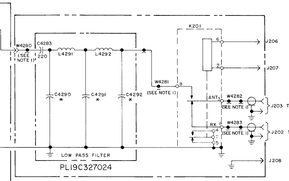
100 WATT UHF MOBILE AND INTERMITTENT DUTY STATION POWER AMPLIFIER



(19C327331, Rev. 11)
(19B226642, Sh. 1, Rev. 2)
(19B226642, Sh. 2, Rev. 3)







PA ASSEMBLY	REV LTR	DESCRIPTION	HEAT SINK ASM	REV LTR
PL19D426888014	B	406-420 MHZ	PL19B319688G7	
PL19D426888015	B	450-470 MHZ	PL19B319688G7	
PL19D426888016	B	470-494 MHZ	PL19B319688G7	
PL19D424888G17	B	494-512 MHZ	PL19B319688G7	
PL19D424888G37	A	420-450 MHZ	PL19B319688G7	
PL19D424888G31	B	406-420 MHZ	PL19B319688G19	
PL19D424888G32	B	450-470 MHZ	PL19B319688G19	
PL19D424888G33	B	470-494 MHZ	PL19B319688G19	
PL19D424888G34	B	494-512 MHZ	PL19B319688G19	
PL19D424888038	A	420-450 MHZ	PL19B319688G19	

40 WATT MODULE	REV LTR	100 WATT MODULE	REV LTR	FILTER MODULE	REV LTR	FREQUENCY
PL19C321347G5	N	PL19D423006G5	D	PL19C327024G13	D	406-420 MHZ
PL19C321347G6	M	PL19D423006G6	D	PL19C327024G14	D	450-470 MHZ
PL19C321347G7	M	PL19D423006G7	D	PL19C327024G14	D	470-494 MHZ
PL19C321347G8	H	PL19D423006G8	D	PL19C327024G14	D	494-512 MHZ
PL19C321347G9	K	PL19D423006G5	D	PL19C327024G13	D	420-450 MHZ
PL19C321347G5	N	PL19D423006G5	D	PL19C327024G13	D	406-420 MHZ
PL19C321347G6	M	PL19D423006G6	D	PL19C327024G14	D	450-470 MHZ
PL19C321347G7	H	PL19D423006G7	D	PL19C327024G14	D	470-494 MHZ
PL19C321347G8	H	PL19D423006G8	D	PL19C327024G14	D	494-512 MHZ
PL19C321347G9	F	PL19D423006G5	D	PL19C327024G13	D	420-450 MHZ

VOLTAGE READINGS

VOLTAGE READINGS ARE TYPICAL READINGS MADE WITH TRANSMITTER KEYED, AND MEASURED WITH A 20,000 OHMS-PER-VOLT METER WITH REFERENCE TO A- AND NOT CHASSIS GROUND. ANY RF PROBE SHOULD BE USED ON THE VOLT METER LEAD TO AVOID DETUNING RF CIRCUITS. NOTE: READINGS AT Q202 COLLECTOR AND IN THE PA MODULE WILL VARY WITH THE AGE OF THE TRANSMITTER. ADJUSTED FOR 100 WATTS OUTPUT THESE READINGS WILL VARY DEPENDING ON THE SETTING OF POWER ADJUST CONTROL R213.

ALL RESISTORS ARE 1/8 WATT UNLESS OTHERWISE NOTED. RESISTANCE VALUES IN OHMS UNLESS FOLLOWED BY K=1000, OHMS OR MEG=1,000,000 OHMS. CAPACITANCE VALUES ARE IN MICROFARADS UNLESS FOLLOWED BY UF= MICROFARADS, INDUCTANCE VALUES IN MICROHENRYS, UNLESS FOLLOWED BY MH= MILLIHENRYS, OR H=HENRYS.

NOTES:

1. MICROSTRIP PART OF PWB.
2. ALL COMPONENTS MARKED WITH (★) IN THE ASTERISK, SEE COMPONENT VALUE TABLE.
3. ⏚ INDICATES A- GROUND.
4. ⏚ INDICATES VEHICLE GROUND.
5. C296 LLB IS USED IN PL19C321347G5 & G9 ONLY.
6. R216 USED ONLY IN 450-470MHZ RANGE.
7. ON PL19C321347G5 DELETE L207 & ADD #313.
8. ON PL19C321347G9 DELETE L207 & ADD #314.

M COMPONENT VALUES AS FOLLOWS				
COMP IDENT	L 406-450MHZ	L 450-470MHZ	M 470-494MHZ	H 494-512MHZ
C202	8	8	7	6
C205	8	8	7	6
C213	51	47	43	43
C214	51	47	43	39
C216	18	18	15	15
C218	680	680	680	680
C224	43	39	35	33
C225	43	39	35	33
C226	47	43	37	35
C227	43	39	35	33
C236	5	5	4	4
C238	47	39	35	33
C239	47	43	37	35
C247	47	43	39	37
C249	39	35	32	28
C250	47	39	32	28
C251	47	43	37	35
C252	4	3	3	3
C253	43	37	35	28
C254	39	35	32	28
C255	41	35	32	28
C256	41	35	35	28
C4140	43	37	35	28
C4141	4	3	3	3
C4264	4	3	2.2	2.2
C4265	7	5	2.2	2.2
C4301	10	9	9	9
C4251	20	18	18	18
C4252	5	4	18	7
C253	9	7	4	5
E203	X	X	X	X
E204	X	X	X	X
E205	X	X	X	X
E207	X	X	X	X
E208	X	X	X	X
E209	X	X	X	X
E210	X	X	X	X
E211	X	X	X	X
E212	X	X	X	X
E215	X	X	X	X
E4001	X	X	X	X
E4002	X	X	X	X
E4003	X	X	X	X
E4004	X	X	X	X
E4005	X	X	X	X
E4006	X	X	X	X
E4007	X	X	X	X
E4009	X	X	X	X
E4010	X	X	X	X
E4011	X	X	X	X
E214	X	X	X	X
C215	8	8	7	6

SCHEMATIC DIAGRAM

100 WATT UHF MOBILE & INTERMITTENT DUTY STATION POWER AMPLIFIER

Issue 8

PARTS LIST

LBI30209G

450-512 MHz, 100 WATT POWER AMPLIFIER
19D434886G14-G17, G37 ("M" SERIES MOBILE, INT. DUTY STATION)
19D434886G31-G38, G58 ("E" SERIES MOBILE)

SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - - - - TRANSISTORS - - - - - - - - - -
Q215 thru Q219	19A116743P1	Silicon, NPN.
Q216 thru Q219	19A134171P2	Silicon, NPN.
		- - - - - - - - - - THERMISTORS - - - - - - - - - -
RT201	19A129379G1	Thermistor: 40K ohm ±20%, color code white; mounted on Q5 heatsink Type RO60J-1.
		- - - - - - - - - - CABLES - - - - - - - - - -
W212	19A130488G1	Jumper.
W213	19A227090P1	Jumper.
W214	19A227275G1	Jumper.
W215	19A227074G1	Jumper.
		40 WATT MODULE 19C321346T01 400-420 MHz (AL) 19C321347G01 450-470 MHz (J) - REV L 19C321347G07 470-494 MHz (K) 19C321347G8 494-512 MHz (L) 19C321347G09 420-450 MHz (AL)
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C201 and C202	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C203	19A116192P1	Ceramic: 0.01 uf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C204	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C205	19A116656P32	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C206*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV K. Deleted in G6 by REV H. Deleted in G7 by REV D. In REV K & earlier in G5, In REV C & earlier in G6+G8:
	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C207LL	19A116656P30	Ceramic disc: 8 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C207L*	19A116656P30	Ceramic disc: 8 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. In REV D & earlier:
	19A116656P32	Ceramic disc: 6 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C207M*	19A116656P720	Ceramic disc: 7 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. In REV E & earlier:
	19A116656P620	Ceramic disc: 6 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C207N	19A116656P630	Ceramic disc: 6 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C208LL	19A116656P820	Ceramic disc: 8 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C208L*	19A116656P620	Ceramic disc: 6 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Deleted by REV F.
C208M*	19A116656P620	Ceramic disc: 6 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Deleted by REV F.
C208N*	19A116656P630	Ceramic disc: 6 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Deleted by REV F.

SYMBOL	GE PART NO.	DESCRIPTION
C209LL*	7488162P15	Silver mica: 33 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. Deleted by REV C. Added by REV D. Deleted by REV G.
C209L*	7488162P11	Silver mica: 22 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. Deleted by REV C.
C209M*	7489162P11	Silver mica: 22 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15.
C209N*	7489162P13	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. Deleted by REV C.
C209*	19A116654P3330	Ceramic disc: 33 pf ±5%, 500 VDCW, temp coef 0 PPM. Added to G5 by REV G, G6 by REV E, G7 & G8 by REV J.
C210LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV K. Deleted in G6 by REV D.
C210L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV K.
C210M*	19A134666P2	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV K.
C210N*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV K. Deleted in G6 by REV D.
C211LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV L. Deleted in G8 by REV D.
C211L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV K.
C211M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G7 by REV H.
C211N*	19A134666P2	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G8 by REV H.
C212	19A116192P21	Ceramic: 0.01 uf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C213*	19A116654P420	Ceramic disc: 4 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Deleted by REV F.
C213LL*	19A116656P5J0	Ceramic disc: 5 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Added to G5 by REV K. Deleted in G6 by REV K. Added to G5 by REV N. Added to G6 by REV F.
C214LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV L. Deleted in G6 by REV D.
C214L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV K.
C214M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G8 by REV H.
C214N*	19A134666P2	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G8 by REV H.
C215LL	19A116952P47	Metallized teflon: 47 pf ±5%, 250 VDCW.
C215L	19A116952P47	Metallized teflon: 47 pf ±5%, 250 VDCW.
C215M	19A116952P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C215N	19A116952P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C216LL	19A116952P51	Metallized teflon: 51 pf ±5%, 250 VDCW.
C216L	19A116952P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C216M	19A116952P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C216N	19A116952P39	Metallized teflon: 39 pf ±5%, 250 VDCW.
C217LL	19A116789P18D	Metallized teflon: 18 pf ±5 pf, 250 VDCW.
C217L	19A116789P16D	Metallized teflon: 16 pf ±5 pf, 250 VDCW.
C217M	19A116789P15D	Metallized teflon: 15 pf ±5 pf, 250 VDCW.
C217N	19A116789P13D	Metallized teflon: 13 pf ±5 pf, 250 VDCW.
C218*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV L. Deleted in G6 by REV D. Deleted in G7 & G8 by REV K. Deleted in G9 by REV D.
C219*	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap. Deleted in G6 by REV J.
C220	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.

SYMBOL	GE PART NO.	DESCRIPTION
C221	19D209723P4	Tantalum: 6.8 uf ±20%, 35 VDCW.
C222LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV L. Deleted in G9 by REV D.
C222L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV K.
C222M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G7 by REV H.
C222N*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G8 by REV H.
C223	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C224LL	19A116952P41	Metallized teflon: 41 pf ±5%, 250 VDCW.
C224L	19A116952P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C224M	19A116952P33	Metallized teflon: 33 pf ±5%, 250 VDCW.
C224N	19A116952P32	Metallized teflon: 32 pf ±5%, 250 VDCW.
C225LL	19A116952P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C225L	19A116952P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C225M	19A116952P33	Metallized teflon: 33 pf ±5%, 250 VDCW.
C225N	19A116952P32	Metallized teflon: 32 pf ±5%, 250 VDCW.
C226LL	19A116952P47	Metallized teflon: 47 pf ±5%, 250 VDCW.
C226L	19A116952P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C226M	19A116952P37	Metallized teflon: 37 pf ±5%, 250 VDCW.
C226N	19A116952P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C227LL	19A116952P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C227L	19A116952P37	Metallized teflon: 37 pf ±5%, 250 VDCW.
C227M	19A116952P37	Metallized teflon: 37 pf ±5%, 250 VDCW.
C227N	19A116952P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C228	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C229LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV L. Deleted in G6 by REV K. Deleted in G7 & G8 by REV D.
C229L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G6 by REV K.
C229M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G7 by REV H.
C229N*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G8 by REV H.
C230LL*	19A116655P720	Ceramic disc: 8 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. In G5 of REV K & earlier: In G6 of REV C & earlier:
	19A116655P8J0	Ceramic disc: 8 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C230M	19A116655P4J0	Ceramic disc: 4 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C230N	19A116655P3J0	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C231	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C232	19D209723P4	Tantalum: 6.8 uf ±20%, 35 VDCW.
C233LL*	19A134106P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW, temp coef 0 ±120 PPM/°C. Deleted by REV B.
C233M*	19A134106P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW, temp coef 0 ±120 PPM/°C. Deleted by REV B.
C234LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV L. Deleted in G9 by REV D.
C234L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G6 by REV K.
C234M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G7 by REV H.
C234N*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G8 by REV H.

SYMBOL	GE PART NO.	DESCRIPTION
C235LL*	19A116952P47	Metallized teflon: 47 pf ±2%, 250 VDCW. In GS of REV K & earlier; In G8 of REV C & earlier:
	19A116952P43	Metallized teflon: 43 pf ±2%, 250 VDCW.
C235L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C235M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C235N	19A116952P33	Metallized teflon: 33 pf ±2%, 250 VDCW.
C236LL*	19A116952P47	Metallized teflon: 47 pf ±2%, 250 VDCW.
		In GS of REV K & earlier: In G9 of REV C & earlier:
	19A116952P39	Metallized teflon: 39 pf ±2%, 250 VDCW.
C236L	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C236M	19A116952P33	Metallized teflon: 33 pf ±2%, 250 VDCW.
C236N	19A116952P33	Metallized teflon: 33 pf ±2%, 250 VDCW.
C237LL	19A116952P47	Metallized teflon: 47 pf ±2%, 250 VDCW.
C237L	19A116952P39	Metallized teflon: 39 pf ±2%, 250 VDCW.
C237M	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C237N*	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW. In REV D & earlier:
	19A116952P33	Metallized teflon: 33 pf ±2%, 250 VDCW.
C238LL*	19A116952P47	Metallized teflon: 47 pf ±2%, 250 VDCW.
C238L	19A116952P43	Metallized teflon: 43 pf ±2%, 250 VDCW.
C238M*	19A134100P19	Ceramic disc: 1.1pf ±0.1 pf, 100 VDCW, temp coef 0 ±250 PPM/°C. Deleted by REV B.
C238N*	19A116952P43	Metallized teflon: 43 pf ±2%, 250 VDCW. In REV D & earlier:
	19A116952P33	Metallized teflon: 33 pf ±2%, 250 VDCW.
C239*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV K. Deleted in G6 by REV K. Deleted in G7 & G8 by REV D.
C239LL*	7488162P13	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. Added by REV B. Deleted in G5 by REV L, G6 by REV D.
C240LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G5 by REV L. Deleted in G9 by REV D.
C240L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G6 by REV K.
C240M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G7 by REV H.
C240N*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted in G8 by REV H.
C241	19A134202P15	Tantalum: 6.8 uf ±20%, 35 VDCW.
C242	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C243	19A134202P15	Tantalum: 6.8 uf ±20%, 35 VDCW.
C244 and C245	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C246 thru C250	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C251	19A116192P21	Ceramic: 0.01 uf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C252LL*	19A116656P5J0	Ceramic disc: 5 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. In GS of REV M-N:
	19A116656P9J0	Ceramic disc: 9 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. In REV B-G:
	19A116656P6J0	Ceramic disc: 6 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. In REV A & earlier:
	19A116656P4J0	Ceramic disc: 4 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.

SYMBOL	GE PART NO.	DESCRIPTION
C252M*	19A116656P7J0	Ceramic disc: 7 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. In REV C-H:
	19A116656P5J0	Ceramic disc: 5 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Added by REV B.
C252N*	19A116656P3J0	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Added by REV B.
C253	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C255 and C256	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C257LL*	19A116656P5J0	Ceramic disc: 5 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. In GS REV N: In G9 REV E:
	19A116656P7J0	Ceramic disc: 7 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
	19A134171P4	In GS of REV L & earlier; In G9 of REV D & earlier:
	19A116656P5J0	Ceramic disc: 5 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C257L*	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW, temp coef 0 ±120 PPM/°C. Deleted by REV B.
C257M*	19A134100P18	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW, temp coef 0 ±250 PPM/°C. Deleted by REV B.
C257N*	19A134100P19	Ceramic disc: 1.1pf ±0.1 pf, 100 VDCW, temp coef 0 ±250 PPM/°C. Deleted by REV B.
C258LL*	19A116655P3J0	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Deleted by REV G.
C260	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C262*	19A116114P2044	Ceramic: 27 pf ±5%, 100 VDCW; temp coef -80 PPM. Added to G6 by REV F. Deleted from G6 by REV G.
C263* and C264*	19A116655P20	Ceramic disc: 1000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap. Added to G5 by REV K. Added to G6 by REV H. Added by G7, G8 by REV G. Added to G8 by REV K.
		- - - - - - - - DIODES AND RECTIFIERS - - - - - - - -
CR201	19A116052P1	Silicon, hot carrier: Fwd drop .350 volts max.
CR202 and CR203	19A115255P1	Silicon, fast recovery, 125 mA, 50 PIV.
CR304* and CR305*	19A115255P1	Silicon, fast recovery, 125 mA, 50 PIV. Added by REV A.
		- - - - - - - - - - TERMINALS - - - - - - - - - -
E201 and E202	19A134263P1	Contact, electrical: sim to Selectro 229-1082-00-0-0300.
G211	19A134263P1	Contact, electrical: sim to Selectro 229-1082-00-0-0300.
		- - - - - - - - JACKS AND RECEPTACLES - - - - - - - -
J201	19A130924G1	Connector, receptacle: coaxial, jack type; sim to Cinch 142111813.
J205	19B219378G1	Connector: 9 contacts.
		- - - - - - - - - - INDUCTORS - - - - - - - - - -
L202	19A701091G1	Coil.
L203	19A129774P1	Coil.
L204	19A701091G1	Coil.
L205	19B219457P6	Choke, RF: 5.6 µh ±10%, 0.13 ohms DC res max.
L206	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max. Deleted in G5 by REV N, G6 by REV K.
L207*	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L208LL	19A130655P1	Coil.
L208M	19A130656P1	Coil.
L209	19A701091G1	Coil.
L210LL*	19A700000P25	Choke, RF: 15.0 µh ±10%, 1.20 ohms DC res max. Deleted in G5 by REV N, G6 by REV K.
L210L	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L210M	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L210N	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L211	19B219457P6	Coil.
L212	19A701091G1	Coil.
		- - - - - - - - - - TRANSISTORS - - - - - - - - - -
Q201	19A134237P1	Silicon, NPN.
Q202	19A134164P2	Silicon, NPN; sim to Type 2N3645.
Q203LL*	19A134239P3	Silicon, NPN.
		In G5 of REV K & earlier; sim to Type 2N3645.
	19A134171P4	Silicon, NPN. In G5 of REV N & earlier; In G6 of REV A & earlier:
	19A134171P2	Silicon, NPN.
Q203L	19A134239P3	Silicon, NPN.
Q203M	19A134239P1	Silicon, NPN.
Q203N	19A134239P1	Silicon, NPN.
Q204	19A134242P1	Silicon, NPN.
		- - - - - - - - - - RESISTORS - - - - - - - - - -
R201	19A700100P63	Composition: 1K ohms ±5%, 1/4 w.
R202	3R15SP306J	Composition: 30OK ohms ±5%, 1/4 w.
R203*	19A700113P7	Composition: 4.7 ohms ±5%, 1/2 w. Deleted by REV C. Added by REV D. Added to G6 by REV E, to G7 & G8 by REV F.
R204*	19A700113P25	Composition: 27 ohms ±5%, 1/2 w. In REV B & earlier:
	19A700113P22	Composition: 22 ohms ±5%, 1/2 w.
R205	19A700106P23	Composition: 22 ohms ±5%, 1/4 w.
R206	19A700113P15	Composition: 10 ohms ±5%, 1/2 w.
R207	19A700106P35	Composition: 68 ohms ±5%, 1/4 w.
R208	19A700113P15	Composition: 10 ohms ±5%, 1/2 w.
R209	19A700113P37	Composition: 560 ohms ±5%, 1/4 w.
R210 thru R212	19C850600P1	Shunt resistor.
R213	19A116559P102	Variable, cermet: 1K ohms ±20%, 0.5 w; sim to CTS Series 360.
R214	19A700113P15	Composition: 10 ohms ±5%, 1/2 w.
R215	19A700106P25	Composition: 27 ohms ±5%, 1/4 w.
R216*	19A700113P15	Composition: 10 ohms ±5%, 1/2 w. Added to G6 by REV F.
		- - - - - - - - - - TRANSFORMERS - - - - - - - - - -
T201 thru T205	19A130446G1	Coil.
		- - - - - - - - - - INTEGRATED CIRCUITS - - - - - - - - - -
U201	19D423127G1	Power Control.
		- - - - - - - - VOLTAGE REGULATORS - - - - - - - -
VR201	4036887P1	Zener: 500 mW, 2.3 v. nominal.
VR202	4036887P5	Zener: 500 mW, 5.4 v. nominal.

SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - - - - CABLES - - - - - - - - - -
W201 thru W205		(Part of printed board 19D423005P1).
W206	19A701093P1	Strap.
W207		(Part of printed board 19D423005P1).
W209	19B227673G1	Jumper.
W210	19B227674G1	Jumper.
		- - - - - - FREQ. SELECTING NETWORKS - - - - - -
Z201*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G5 by REV K. Added to G6 by REV K. Added to G7 by REV H. Added to G8 by REV H.
Z203LL*	19A134666P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G5 by REV L. Added to G6 by REV D.
Z203L*	19A134666P1	In GS of REV J-L, G9 of REV B-D:
Z203M*	19A134666P1	Silicon, NPN. Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G7 by REV H. In G8 of REV A-D & earlier:
Z203N*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G8 by REV H.
Z204LL*	19A134666P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G5 by REV L. Added to G9 by REV D.
Z204L*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G6 by REV K.
Z204M*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G8 by REV H.
Z204N*	19A134666P2	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G8 by REV H.
Z205LL*	19A134666P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G5 by REV L. Added to G9 by REV D.
Z205L*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G6 by REV K.
Z205M*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G8 by REV H.
Z205N*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G8 by REV H.
Z206*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G5 by REV L. Added to G9 by REV D. Added to G6 by REV K. Added to G7 & G8 by REV H.
Z207LL*	19A134666P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G5 by REV L. Added to G9 by REV D.
Z207L*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G6 by REV K.
Z207M*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G7 by REV H.
Z207N*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G8 by REV H.
Z208LL*	19A134666P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G5 by REV L. Added to G9 by REV D.
Z208L*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G6 by REV K.
Z208M*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G8 by REV H.
Z208N*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G8 by REV H.

SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - - - - CABLES - - - - - - - - - -
Z206LL*	19A134666P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G5 by REV L. Added to G9 by REV D.
Z206L*	19A134666P1	Coil.
Z206M*	19A134655P1	Choke, RF: 15.0 µh ±10%, 1.20 ohms DC res max. Deleted in G5 by REV K, G6 by REV E.
Z206N*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G8 by REV H.
Z210*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G5 by REV L. Added to G9 by REV D. Added to G6 by REV K. Added to G7 & G8 by REV H.
Z211LL*	19A134666P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G5 by REV L. Added to G9 by REV D.
Z211L*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G6 by REV K.
Z211M*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G7 by REV H.
Z211N*	19A134666P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Added to G8 by REV H.
Z213 and Z214	19A134331G1	Choke, RF. Added to G5 by REV N. Added to G9 by REV E.
		100 WATT MODULE 19D423006G5 406-450 MHz (LL) 19D423019G6 450-470 MHz (K) 19D423030G7 470-494 MHz (K) 19D423030G8 494-512 MHz (K)
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C4201 thru C4203	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap. Added to G5 by REV K.
C4204LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted by REV C.
C4204L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted by REV C.
C4204M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted by REV C.
C4204N*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted by REV C.
C4205LL	19A116952P39	Metallized teflon: 39 pf ±2%, 250 VDCW.
C4205L	19A116952P35	Metallized teflon: 33 pf ±2%, 250 VDCW.
C4205M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4205N	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4206LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4206L	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4206M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4206N	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4207*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC. Deleted by REV C.
C4209	19A116192P1	Ceramic: 0.01 uf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C4209LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4209L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4209M	19A116952P33	Metallized teflon: 33 pf ±2%, 250 VDCW.
C4209N	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4210LL	19A116952P43	Metallized teflon: 43 pf ±2%, 250 VDCW.
C4210L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.

(Cont'd on Page 7)

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

SYMBOL	GE PART NO.	DESCRIPTION
C4210M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4210H	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4211LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4211L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4211M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4211H*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4212LL	19A116656P4J0	Ceramic disc: 4 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C4212L	19A134100P19	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW.
C4214LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4214L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4214M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4214H*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4215LL	19A116952P39	Metallized teflon: 39 pf ±2%, 250 VDCW.
C4215L	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4215M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4215H	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4216LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4216L	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4216M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4216H	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4217*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4218	19A116192P1	Ceramic: 0.01 µf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C4219LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4219L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4219M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4219H	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4220LL	19A116952P43	Metallized teflon: 43 pf ±2%, 250 VDCW.
C4220L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4220M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4220H	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4221LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4221L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4221M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4221H*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4222LL	19A116656P4J0	Ceramic disc: 4 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C4222L	19A134100P19	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW.
C4224LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4224L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4224M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4224H*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4225LL	19A116952P39	Metallized teflon: 39 pf ±2%, 250 VDCW.
C4225L	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4225M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4225H	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4226LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4226L	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4226M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4226H	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4227*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4228	19A116192P1	Ceramic: 0.01 µf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C4229LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4229L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4229M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4229H	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4230LL	19A116952P43	Metallized teflon: 43 pf ±2%, 250 VDCW.
C4230L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4230M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4230H	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4231LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4231L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4231M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4231H*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4232LL	19A116656P4J0	Ceramic disc: 4 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C4232L	19A134100P19	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW.
C4234LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4234L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4234M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4234H*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4235LL	19A116952P39	Metallized teflon: 39 pf ±2%, 250 VDCW.
C4235L	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4235M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4235H	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4236LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4236L	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4236M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4236H	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4237*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4238	19A116192P1	Ceramic: 0.01 µf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C4239LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4239L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4239M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4239H	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4240LL	19A116952P43	Metallized teflon: 43 pf ±2%, 250 VDCW.
C4240L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4240M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4240H	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4241LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4241L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4241M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4241H*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
C4242LL	19A116656P4J0	Ceramic disc: 4 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C4242L	19A134100P19	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW.
C4243 thru C4245	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C4246	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C4247	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C4248 thru C4253	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C4265L	19A116656P3J0	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C4265M	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW.
C4265H	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW.
C4266L	19A116656P3J0	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C4266M	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW.
C4266H	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW.
C4268*	19B209723P4	Tantalum: 6.8 µf ±20%, 35 VDCW. Added by REV B.
		- - - - - - - - - - TERMINALS - - - - - - - - - -
E4201	19A134263P1	Contact, electrical: sim to Selectro 229-1082-00-0-590.
G4211	19A134263P1	Contact, electrical: sim to Selectro 229-1082-00-0-590.
		- - - - - - - - - - INDUCTORS - - - - - - - - - -
L4201	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L4202	19A130447G2	Coil.
L4203	19A701091G1	Coil.
L4204	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L4205	19A130447G1	Coil.
L4206	19A701091G1	Coil.
L4207	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L4208	19A130447G2	Coil.
L4209	19A701091G1	Coil.
L4211	19A130447G1	Coil.
L4212	19A701091G1	Coil.
		- - - - - - - - - - RESISTORS - - - - - - - - - -
R4201	19A700111P39	Composition: 100 ohms ±5%, 2 w.
R4202 and R4203	19A700112P39	Composition: 100 ohms ±5%, 1 w.
R4204 thru R4207	19A700113P15	Composition: 10 ohms ±5%, 1/2 w.
R4208* and R4209*	19A700111P39	Composition: 100 ohms ±5%, 2 w.
		Earlier than REV A:
	3R78P101J	Composition: 100 ohms ±5%, 1 w.
R4210	19A700111P39	Composition: 100 ohms ±5%, 2 w.
		- - - - - - - - - - TRANSFORMERS - - - - - - - - - -
T4201 thru T4208	19A130446G1	Coil.
		- - - - - - - - - - CABLES - - - - - - - - - -
W4201 and W4202		(Part of printed board 19C321425G1).
W4203 and W4204	19B226708G1	Jumper.
W4211	19A130479P2	Strap.
		- - - - - - FREQ SELECTING NETWORKS - - - - - -
Z4201LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4201L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4201M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4201H	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4202	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4203LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4203L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4203M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4203H	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4204LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4204L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4204M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4204H	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4205	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4206LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4206L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4206M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4206H	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4207LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4207L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4207M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4207H	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4208	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4209LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4209L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4209M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4209H	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4210LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4210L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4210M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4210H	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4211	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4212LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4212L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4212M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.

(Cont'd on Page 8)

SYMBOL	GE PART NO.	DESCRIPTION
Z4212H	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted by REV C.
Z4213 thru Z4216	19A143581G1	Choke, RF. Added to G5 by REV M. Added to G9 by REV E.
		LOW PASS FILTER 19C327024G3 406-450 MHz (LL) 19C327024G4 450-512 MHz (H) (Added to 19D424888 by REV A)
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C4290LL	19A700014P4	Teflon/mica: 10 pf ±5%, 250 VDCW.
C4290H	19A116952P9	Metallized teflon: 9 pf ±0.5 pf, 250 VDCW.
C4291LL	19A116952P20	Metallized teflon: 20 pf ±0.5 pf, 250 VDCW.
C4291H	19A116952P18	Metallized teflon: 18 pf ±0.5 pf, 250 VDCW.
C4292LL	19A116952P13	Metallized teflon: 13 pf ±0.5 pf, 250 VDCW.
C4292H	19A116952P12	Metallized teflon: 12 pf ±0.5 pf, 250 VDCW.
C4293	19A700015P37	Teflon/mica: 220 pf ±5%, 250 VDCW.
		- - - - - - - - - - INDUCTORS - - - - - - - - - -
L4291LL	19B226709G2	Jumper. (Includes L4292LL).
L4291H	19B226709G1	Jumper. (Includes L4294H).
L4292LL		(Part of L4291LL).
L4292H		(Part of L4291H).
		- - - - - - - - JACKS AND RECEPTACLES - - - - - - - -
J202 and J203	19A130924G1	Connector, receptacle: coaxial, jack type; sim to Cinch 14H11613.
J206 and J207	19A134263P2	Contact, electrical: sim to Selectro 229-1071.
J208	4033513P4	Contact, electrical: sim to Bead Chain L93-3.
		- - - - - - - - - - RELAYS - - - - - - - - - -
K201	19A700061P1	Hermetic sealed: 180-341 ohms coil res, 8-16.3 VDC; sim to GE 3SAV1760A2, CP Clare HFW-1201558, or Potter-Brumfield HCM6160.
		- - - - - - - - - - CABLES - - - - - - - - - -
W4280 thru W4283		(Part of printed board 19D424367P1).
		LOW PASS FILTER MODULE 19C321424G4 (Deleted from 19D424888 by REV A)
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C4280H	19A116952P9	Metallized teflon: 9 pf ±0.5 pf, 250 VDCW.
C4281H	19A116952P18	Metallized teflon: 18 pf ±0.5 pf, 250 VDCW.
C4282H	19A116952P12	Metallized teflon: 12 pf ±0.5 pf, 250 VDCW.
C4283H	19A700015P37	Teflon/mica: 220 pf ±5%, 250 VDCW.
		- - - - - - - - - - INDUCTORS - - - - - - - - - -
L4281 and L4282	19B226709G1	Jumper.
		- - - - - - - - JACKS AND RECEPTACLES - - - - - - - -
J202 and J203	19A130924G1	Connector, receptacle: coaxial, jack type; sim to Cinch 14H11613.
J206 and J207		(Part of K201).
J208	4033513P4	Contact, electrical: sim to Bead Chain L93-3.

SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - - - - RELAYS - - - - - - - - - -
K201	19A116722P1	Hermetic sealed: 125 ohms ±20%, 1 form C contact, 9.6 to 15.8 VDC (over the temp range indicated). (Includes J206 & J207).
		- - - - - - - - - - CABLES - - - - - - - - - -
W4280 thru W4283		(Part of printed board 19D423111P1).
		HEAT SINK 19B219688G7 ("M" SERIES) 19B219688G19 ("E" SERIES)
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C297 and C298	19A116708P1	Ceramic, feed-thru: 0.01 µf +100% -0%; sim to Erie Style 327050X-5W0103P.
C299	19A115680P10	Electrolytic: 200 µf +150% -10%, 18 VDCW; sim to Mallory Type TTX.
		- - - - - - - - - DIODES AND RECTIFIERS - - - - - -
CR295	19A116783P1	Silicon.
		- - - - - - - - - MISCELLANEOUS - - - - - - - - -
	5492178P2	Washer, spring tension: sim to Wallace Barnes 375-20. (Used with Q202).
	19A702182P1	Spacer. (Used with Q202).
	N207P15C6	Nut, hex: No. 8-32. (Used with Q202).
	N44P9010C6	Machine screw: No. 4-40 x 5/8. (Used with Q203).
	19A700068P1	Insulator, bushing. (Used with Q215).
	19A116023P1	Insulator, plate. (Used with Q215).
	19B201074P312	Tap screw, Phillips POZIDRIV®: No. 6-32 x 3/4. (Secures Filter Assembly).
	19B201074P306	Tap screw, Phillips POZIDRIV®: No. 6-32 x 3/8. (Secures Filter Board & jumper between 100 Watt Module & Filter Board).
	19C321442P1	Insulator. (Located under 100 Watt Module).
	19C321441P1	Insulator. (Located under 40 Watt Module).
	19A701332P4	Insulator, washer: nylon. (Used with Q201).
	N80P9006C6	Machine screw, phillips: No. 4-40 x 3/8. (Secures Q215).
	7141225P2	Hex nut: No. 4-40. (Secures Q215).
	N402P35C6	Washer, steel: No. 4. (Secures Q215).
	N80P13010C6	Machine screw: No. 6-32 x 5/8. (Secures 40 Watt Module).
	19A129434P1	Washer, fiber. (Located on terminals of C297 & C298).
	19D416732G7	Heat sink. ("M" SERIES).
	19D417105G7	Heat sink. ("E" SERIES).
	19A129639P1	Cover. (Located on "E" SERIES Heat Sink).
	19B201074P305	Tap screw, Phillips POZIDRIV®: No. 6-32 x 5/16. (Secures 19A129639P1 cover).

PRODUCTION CHANGES

Changes in the equipment to improve performance or to simplify circuits are identified by a "Revision Letter," which is stamped after the model number of the unit. The revision stamped on the unit includes all previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.

REV. A - PA Assembly 19D424888G14-17 & G31-34
To incorporate new low-pass filter. Deleted 19C321424.
Added 19C327024.

REV. A - 40 Watt Module 19C321347G5-8
To improve power output at cold temperatures. Added CR204 & CR205.

REV. B - 40 Watt Module 19C321347G5-8
To improve operation.
In 19C321347G5: deleted C213 and changed C252LLB.
In 19C321347G6: deleted C233L, C257L and added C252LB.
In 19C321347G7: deleted C257M and added C252MB.
In 19C321347G8: deleted C233H, C257H and added C252HB.

REV. C - 40 Watt Module 19C321347G5-8
To improve operation. Deleted C209 and R203. Changed R204.

REV. D - 40 Watt Module 19C321347G5
To improve operation. Added C209 and R203.

REV. E - 40 Watt Module 19C321347G5
To improve station operation. Added C213.

REV. D - 40 Watt Module 19C321347G6-8
To improve operation. Changed C206.

REV. F - 40 Watt Module 19C321347G5
To improve operation. Changed C206.

REV. E - 40 Watt Module 19C321347G7 & G8
To improve RF Output: In 19C321347G7, 8: Changed C238.
In 19C321347G8 : Changed C237.

REV. E - 40 Watt Module 19C321347G6
REV. F - 40 Watt Module 19C321347G7, 8
REV. G - 40 Watt Module 19C321347G5
To improve operation. Changed C207L & C207M. Deleted C208L, C208M and C208H. Changed C209LL designation to C209. Added R203 to groups 6, 7 and 8.

REV. H - 40 Watt Module 19C321347G5
To increase output at 406 MHz. Changed C252LLB. Deleted C239.
Added C239LLB.

REV. A - 100 Watt Module 19D423006G5-8
To improve performance. Changed R4208 and R4209.

REV. B - To improve stability. Added C4268.

REV. F - 40 Watt Module 19C321347G6
To improve stability if PA impedance mismatch occurs. Added R216 and C262.

REV. G - To improve operation. Deleted C262.

REV. H - 40 Watt Module 19C321347G6
REV. K - 40 Watt Module 19C321347G5
REV. G - 40 Watt Module 19C321347G7, 8
REV. J - 40 Watt Module 19C321347G5
REV. A - 40 Watt Module 19C321347G9
To correct Parts List. Added C240LL.

REV. B - 40 Watt Module 19C321347G9
To improve stability. Changed Q203LL.

REV. C - 40 Watt Module 19C321347G9
To improve operation of Power Control Circuit when used as driver for 100 Watt PA. Added C263 and C264.

REV. J - 40 Watt Module 19C321347G6
To improve power output at low end of 450-470 MHz range.
Changed C219.

REV. L - 40 Watt Module 19C321347G5
REV. K - 40 Watt Module 19C321347G6
REV. H - 40 Watt Module 19C321347G7
REV. H - 40 Watt Module 19C321347G8
REV. D - 40 Watt Module 19C321347G9
To incorporate new nomenclature for frequency selection networks.

REV. M - 40 Watt Module 19C321347G5
REV. E - 40 Watt Module 19C321347G9
To improve Power output. Deleted C213LL, L207 & L210LL.
Changed C257LL, C252LLB (Group 5 only), and Q203LLB.
Added Z213 and Z214.

REV. N - 40 Watt Module 19C321347G5
REV. F - 40 Watt Module 19C321347G9
To improve Power output. Changed C230LL, C235LL, C236LL & C257LL.
Added C213LL.

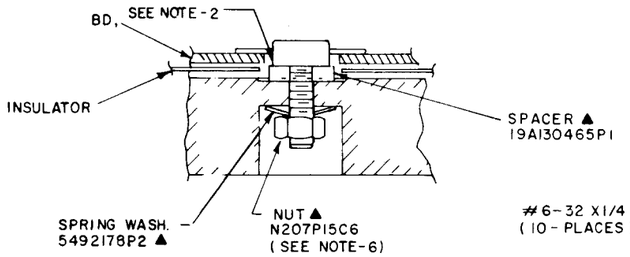
REV. C - 100 Watt Module 19D423006G5-8
To improve operation. Changed C2.

REV. D - 19D423006G5-8
To improve operation. Deleted L4201, L4204, L4207 and L4210.
Added Z4213 - Z4216.

REV. B - PA Assembly 19D424888G14-G17, G31-G34
To improve operation in hot environments and to eliminate potential shots. Changed printed wire board.

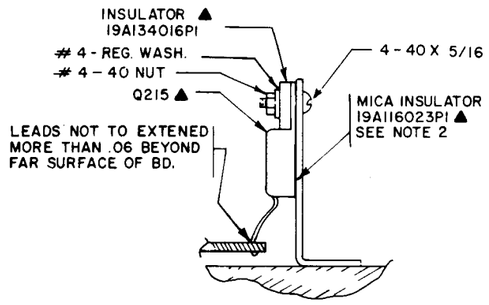
REV. L - 40-Watt PA Module 19C321347G6
To increase output power. Changed C252LB and C237. Deleted R216 and C230L.
R216 Was: 19A700113P15, Composition: 10 ohms ±5%, 1/2 W.
C230L Was: 19A116656P4J0, Ceramic disc: 4 pf, ±0.5 pf, 500 VDCW, temp coef 0 PPM.

REV. M - To improve output power over 450-470 MHz range. Deleted C219L. Changed C252LB. Added C219.
C219L Was: 19A116656P24J0, Ceramic disc 24 pf, ±5%, 500 VDCW, temp coef 0 PPM.
C252LB Was: 19A116656P3J0, Ceramic disc: 3 pf, ±0.5 pf, 500 VDCW, temp coef 0 PPM.

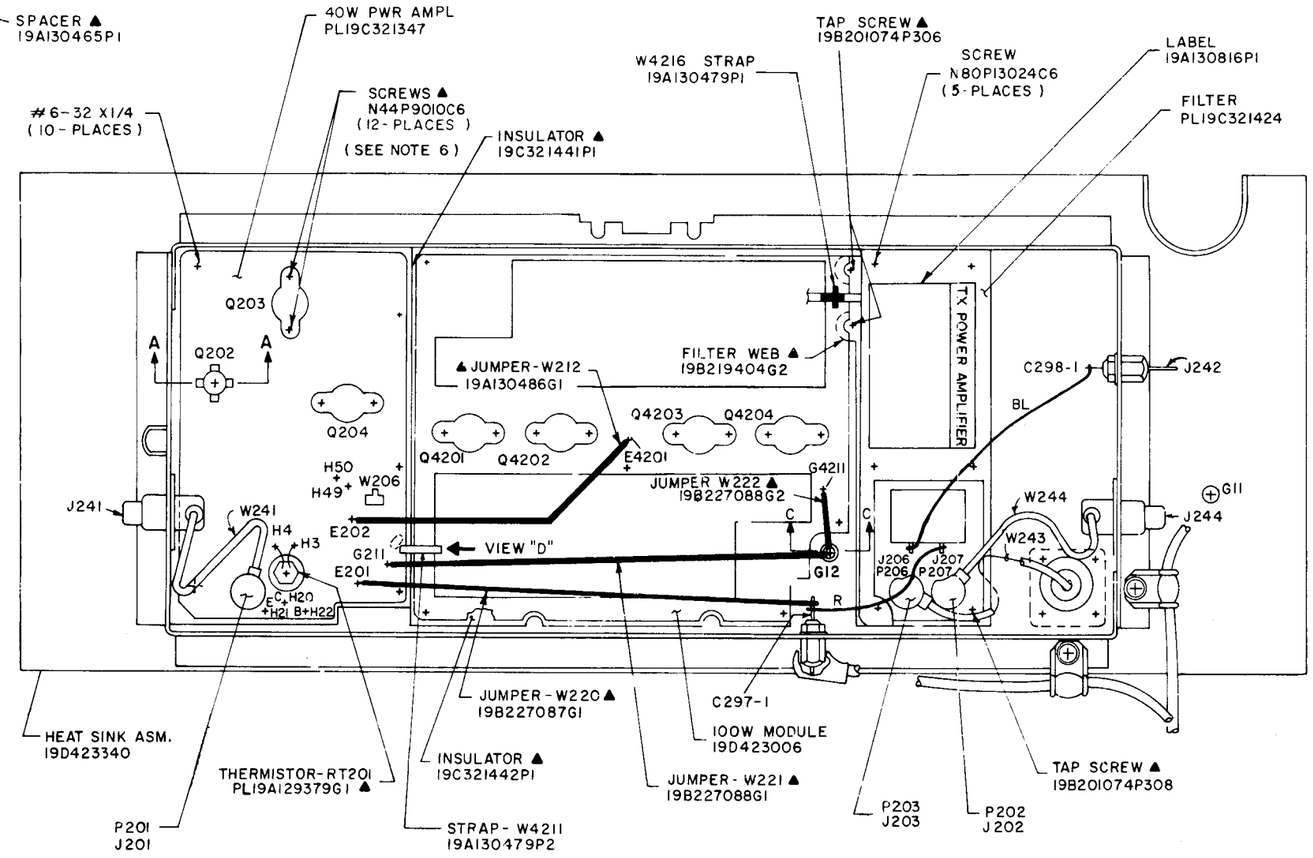


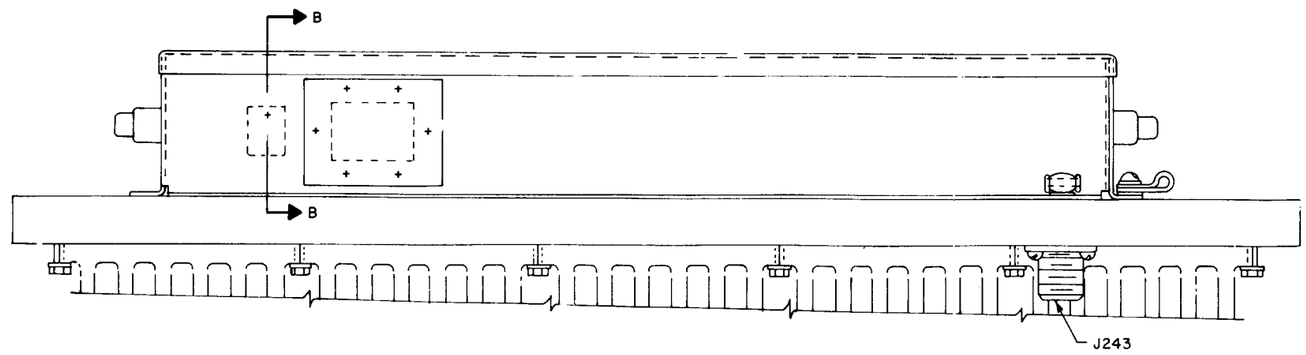
SECTION A-A

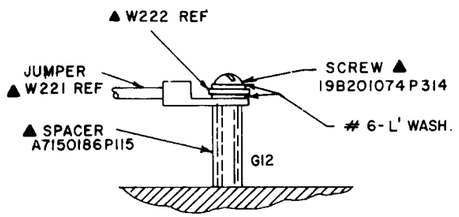
TYP MTG FOR Q202 (SEE NOTE 2)



SECTION B-B



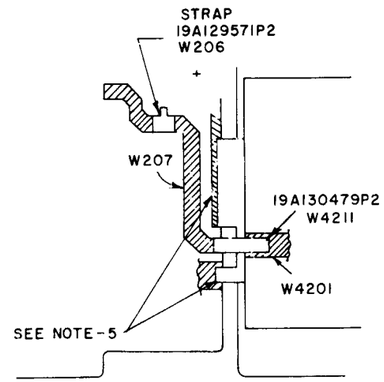




SECTION C-C

NOTES:

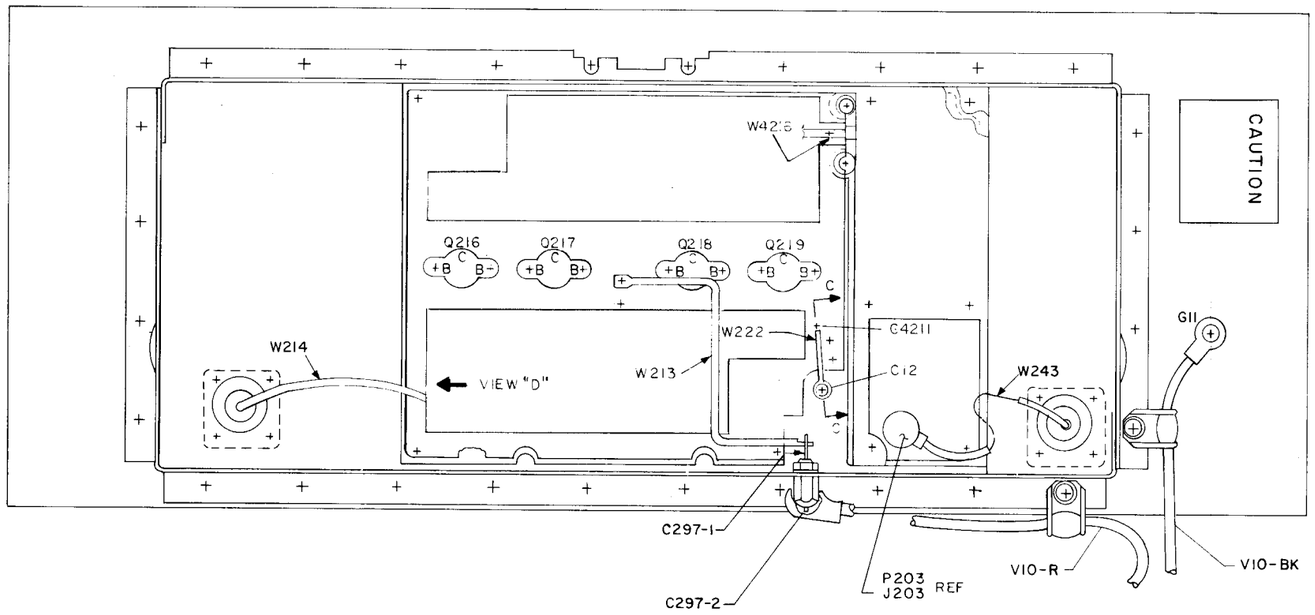
1. ▲ PART OF KIT 19A130484.
2. APPLY SILICONE GREASE TO BOTH SURFACES OF TRANSISTOR INSULATOR (19A116023P1), BETWEEN BOTH MTG SURFACES OF SPACER (19A130465P1) & BETWEEN MTG. SURFACE OF RT201 Q203, Q204, Q4201, Q4202, Q4203, Q4204 & HEAT SINK PER CPD PROCESS P6A-EA111. CARE MUST BE USED SO THAT NO GREASE IS APPLIED TO THE THREADED PORTION OF THE MTG. STUD OF Q202.
3. SOLDER ALL ELECTRICAL CONNECTIONS.
5. SOLDER STRAP TO GROUND ON 40 WATT MODULE (19C321347) AS SHOWN IN VIEW D.
6. TIGHTEN TRANSISTOR MTG. HARDWARE TO WITHIN 8 ± 1 IN. LBS. FOR 8 HARDWARE & 6 ± 1 IN LBS FOR 4 HARDWARE.
7. RECOMMENDED INSTALLATION PROCEDURE OF 40 WATT MODULE (PL19C321347) IS: ASSEMBLE ALL HARDWARE LOOSE, THEN TORQUE Q203 AND Q204 THEN TIGHTEN MOUNTING HARDWARE.
8. RECOMMENDED INSTALLATION PROCEDURE OF 100 WATT MODULE (PL19D423006) IS ASSEMBLE ALL HARDWARE LOOSE, THEN TORQUE Q4201, Q4202, Q4203, AND Q4204, THEN TIGHTEN MOUNTING HARDWARE.
9. SEE INTERCONNECTION DIAG. 19R622188.

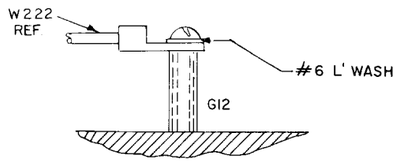


VIEW "D"

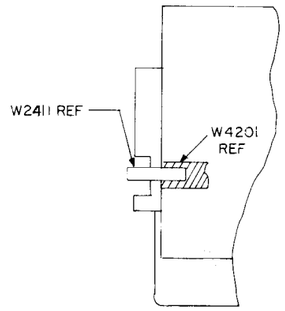
OUTLINE DIAGRAM

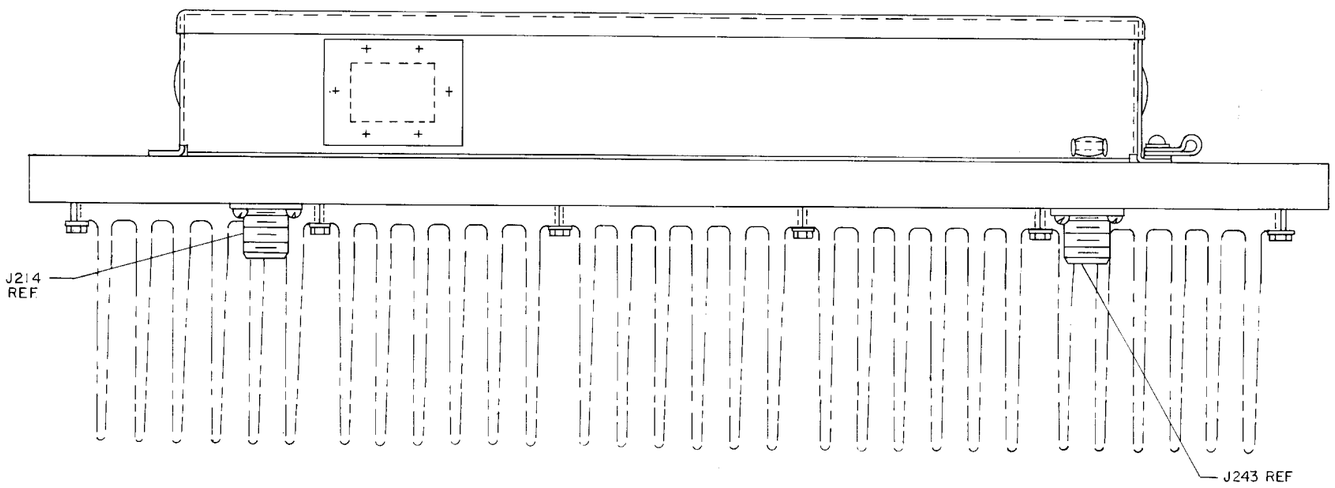
100 WATT UHF CONTINUOUS DUTY
STATION POWER AMPLIFIER

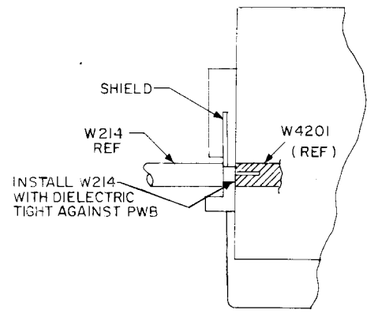




SECTION C-C
ROTATED APPROX. 90° CCW





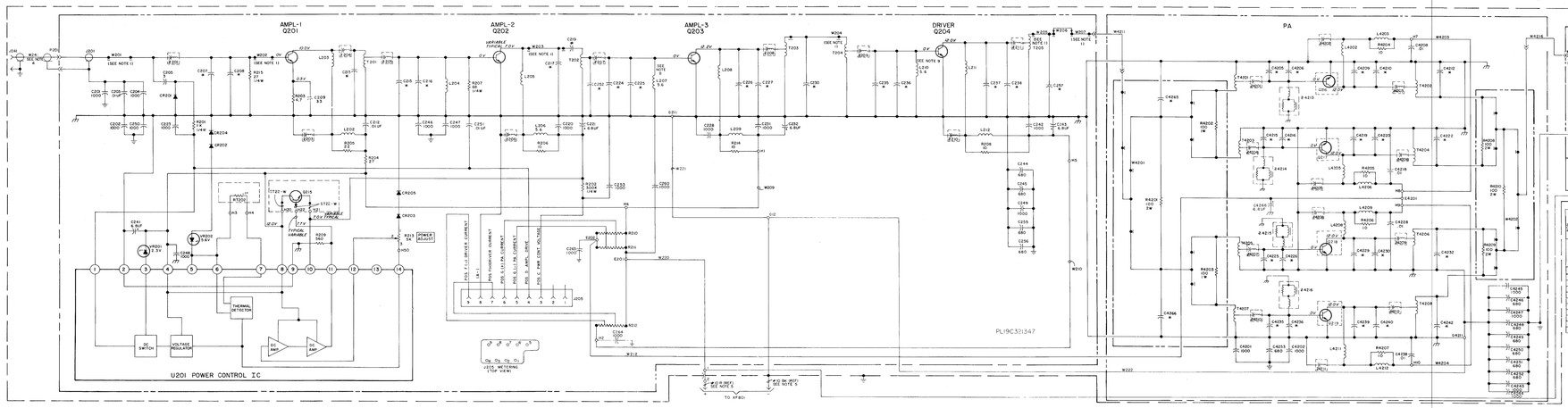


VIEW "D"

OUTLINE DIAGRAM

19D424895G40-G43 POWER AMPLIFIER
USED FOR COMBINING

(19D433142, Rev. 0)


AMPL-1
Q201
AMPL-2
Q202
AMPL-3
Q203
DRIVER
Q204
PA
U201 POWER CONTROL IC
PL19C321547
PL19C327024
PL19C327025
PL19C327026
PL19C327027
PL19C327028
PL19C327029
PL19C327030
PL19C327031
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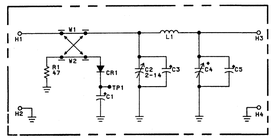
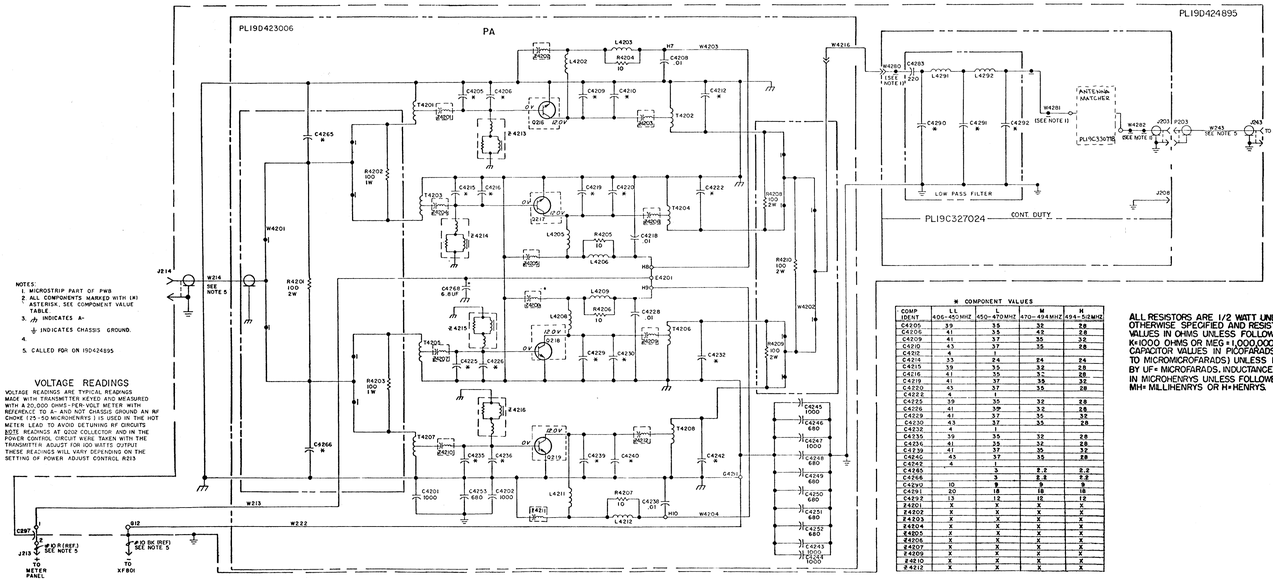


ALL RESISTORS ARE 1/4 WATT UNLESS OTHERWISE SPECIFIED AND RESISTOR VALUES IN OHMS UNLESS FOLLOWED BY K=1000 OHMS OR MEG=1,000,000 OHMS. CAPACITOR VALUES IN PICOFARADS (EQUAL TO MICROMICROFARADS) UNLESS FOLLOWED BY UF=MICROFARADS. INDUCTANCE VALUES IN MICRONENRYS UNLESS FOLLOWED BY MH=MILLIHENRYS OR H=HENRYS.

MODEL NO.	REV. LETTER
19C330778G1	
19C330778G2	
19C330778G3	

* COMPONENT VALUE CHART		
COMPONENT DESIGNATION	B 138-174MHZ	B 406-512MHZ
C1	1000	470
C2	24	2-10
C3	15	
C4	10	

(198233613, Rev. 1)



SYMBOL	GE PART NO.	DESCRIPTION
C214L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N.
C214M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N.
C214N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N.
C215LL	19A116955P47	Metallized teflon: 47 pf ±5%, 250 VDCW.
C215L	19A116955P47	Metallized teflon: 47 pf ±5%, 250 VDCW.
C215M	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C215N	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C215LL	19A116955P51	Metallized teflon: 51 pf ±5%, 250 VDCW.
C216L	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C216M	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C216N	19A116955P39	Metallized teflon: 39 pf ±5%, 250 VDCW.
C217LL	19A116679P18D	Metallized teflon: 18 pf ±.5 pf, 250 VDCW.
C217L	19A116679P16D	Metallized teflon: 16 pf ±.5 pf, 250 VDCW.
C217M	19A116679P15D	Metallized teflon: 15 pf ±.5 pf, 250 VDCW.
C217N	19A116679P13D	Metallized teflon: 13 pf ±.5 pf, 250 VDCW.
C218*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV L Added in GD by REV N. Deleted in GT & GW by REV H. Deleted in GB by REV D.
C219*	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap. Deleted in GD by REV J.
C220	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C221	19B209723P4	Tantalum: 6.8 µf ±20%, 35 VDCW.
C222AL*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV L. Deleted in GB by REV D.
C222L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV K.
C222M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N.
C222N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N.
C223	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C234LL	19A116955P41	Metallized teflon: 41 pf ±5%, 250 VDCW.
C234L	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C234M	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C234N	19A116955P32	Metallized teflon: 32 pf ±5%, 250 VDCW.
C235LL	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C235L	19A116955P39	Metallized teflon: 39 pf ±5%, 250 VDCW.
C235M	19A116955P39	Metallized teflon: 39 pf ±5%, 250 VDCW.
C235N	19A116955P37	Metallized teflon: 37 pf ±5%, 250 VDCW.
C236LL	19A116955P47	Metallized teflon: 47 pf ±5%, 250 VDCW.
C236L	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C236M	19A116955P37	Metallized teflon: 37 pf ±5%, 250 VDCW.
C236N	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C237LL	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C237L	19A116955P37	Metallized teflon: 37 pf ±5%, 250 VDCW.
C237M	19A116955P37	Metallized teflon: 37 pf ±5%, 250 VDCW.
C237N	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C238AL*	19A116955P39	Metallized teflon: 39 pf ±5%, 250 VDCW.
C238L*	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C238M*	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C238N*	19A116955P39	Metallized teflon: 39 pf ±5%, 250 VDCW.
C239*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N. Deleted in GB by REV L.
C239LL*	7489163P13	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N. Deleted in GB by REV L.
C239M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N.
C239N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N.
C240LL*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV L. Added in GD by REV N.
C240L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N.
C240M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted in GD by REV N.
C241	19A134202P15	Tantalum: 6.8 µf ±20%, 35 VDCW.
C242	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C243	19A134202P15	Tantalum: 6.8 µf ±20%, 35 VDCW.
C244 and C245	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C246	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C247 thru C250	19A134100P18	Ceramic disc: 3.2 pf ±0.1 pf, 100 VDCW, temp coef 0 ±120 PPM/°C. Deleted by REV B.
C251	19A116192P1	Ceramic: 0.01 pf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C252LL*	19A116655P52D	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
	19A116655P49D	Ceramic disc: 2 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
	19A116655P47D	Ceramic disc: 1 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C252L*	19A116655P52D	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
	19A116655P49D	Ceramic disc: 2 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
	19A116655P47D	Ceramic disc: 1 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C252M*	19A116655P52D	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
	19A116655P49D	Ceramic disc: 2 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
	19A116655P47D	Ceramic disc: 1 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C253	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C254	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C255 and C256		
C257LL*	19A116655P52D	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
	19A116655P49D	In GD REV N: In GB REV E:
	19A116655P47D	Ceramic disc: 2 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
		In GD of REV L a earlier: In GD of REV D a earlier:
	19A116655P45D	Ceramic disc: 1 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C257L*	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW, temp coef 0 ±120 PPM/°C. Deleted by REV B.
C257M*	19A134100P19	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW, temp coef 0 ±250 PPM/°C. Deleted by REV B.
C257N*	19A134100P18	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW, temp coef 0 ±250 PPM/°C. Deleted by REV B.
C258L*	19A116655P32D	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Deleted by REV C.
C260	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C262*	19A116134P2044	Ceramic: 27 pf ±5%, 100 VDCW; temp coef -80 PPM. Added to GD by REV F. Deleted from GE by REV G.
C263* and C264*	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap. Added to GD by REV K. Added to GT & GW by REV G. Added by GT, GW by REV G. Added to GB by REV C.

SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - DIODES AND RECTIFIERS - - - - - - -
CR201	19A116052P1	Silicon, hot carrier: fwd drop .350 volts max.
CR202 and CR203	19A115235P1	Silicon, fast recovery, 225 ma, 50 PIV.
CR204* and CR205*	19A115235P1	Silicon, fast recovery, 225 ma, 50 PIV. Added by REV A.
		- - - - - - - - TERMINALS - - - - - - - - -
E201 and E202	19A134203P1	Contact, electrical: sim to Selectro 229-1082-00-0-000.
G211	19A134203P1	Contact, electrical: sim to Selectro 229-1082-00-0-000.
		- - - - - - - JACKS AND RECEPTACLES - - - - -
J201	19A130924G1	Connector, receptacle: coaxial, jack type; sim to Cinch 16511-03.
J205	19B219374G1	Connector: 9 contacts.
		- - - - - - - - - INDUCTORS - - - - - - - - -
L202	19A701091G1	Coil.
L203	19A129774P1	Coil.
L204	19A701091G1	Coil.
L205	19B219457P6	Coil.
L206	19A700008P120	Choke, RF: 5.6 µh ±10%, 0.13 ohms DC res max.
L207*	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max. Added in GD by REV N, GD by REV L.
L208L*	19A219457P6	Coil.
L208L*	19A130505P1	Coil.
L208M	19A130505P1	Coil.
L208N	19A130505P1	Coil.
L209	19A701091G1	Coil.
L210LA*	19A700000P25	Choke, RF: 18.0 µh ±10%, 1.20 ohms DC res max. Deleted in GD by REV N, GD by REV L.
L210L	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L210M	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L210N	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L211	19B219457P6	Coil.
L212	19A701091G1	Coil.
		- - - - - - - - - TRANSISTORS - - - - - - - - -
Q201	19A134237P1	Silicon, NPN.
Q202	19A134104P2	Silicon, NPN; sim to Type 2N3945.
Q203A*	19A134239P3	Silicon, NPN.
	19A134171P4	In GB of REV J-L, GD of REV B-D: Silicon, NPN.
	19A134171P2	In GB of REV K a earlier: In GD of REV A a earlier: Silicon, NPN.
Q203L*	19A134239P1	Silicon, NPN.
Q203M	19A134239P1	Silicon, NPN.
Q203N	19A134239P1	Silicon, NPN.
Q204	19A134241P1	Silicon, NPN.
		- - - - - - - - - RESISTORS - - - - - - - - -
R201	19A701006F63	Composition: 1K ohms ±5%, 1/4 w.
R202	3R152P304J	Composition: 300K ohms ±5%, 1/4 w.
R203*	19A701013P7	Composition: 4.7 ohms ±5%, 1/2 w. Deleted by REV C. Added by REV D. Added to GG by REV E, to GT & GW by REV F.

SYMBOL	GE PART NO.	DESCRIPTION
R204*	19A701013P25	Composition: 27 ohms ±5%, 1/2 w.
		In REV B a earlier:
	3R77P220J	Composition: 22 ohms ±5%, 1/2 w.
R205	19A701006P23	Composition: 22 ohms ±5%, 1/4 w.
R206	19A701013P15	Composition: 10 ohms ±5%, 1/2 w.
R207	19A701008P35	Composition: 68 ohms ±5%, 1/4 w.
R208	19A701013P15	Composition: 10 ohms ±5%, 1/2 w.
R209	19A701013P27	Composition: 360 ohms ±5%, 1/4 w.
R210 thru R212	19C850605P1	Shunt resistor.
R213	19A116559P102	Variable, cermet: 5K ohms ±20%, 0.5 w; sim to CTS Series 360.
R214	19A701013P15	Composition: 10 ohms ±5%, 1/2 w.
R215	19A700106P25	Composition: 27 ohms ±5%, 1/4 w.
R216*	19A701013P15	Composition: 10 ohms ±5%, 1/2 w. Added to GG by REV F.
		- - - - - - - - - TRANSFORMERS - - - - - - - - -
T201 thru T205	19A130446G1	Coil.
		- - - - - - - - INTEGRATED CIRCUITS - - - - - -
U201	19D423127G1	Power Control.
		- - - - - - - - VOLTAGE REGULATORS - - - - - - - -
VR201	4036887P1	Zener: 500 MW, 2.3 v. nominal.
VR202	4035887P5	Zener: 500 MW, 5.4 v. nominal.
		- - - - - - - - - - CABLES - - - - - - - - - -
W201 thru W202		(Part of printed board 19D423005P1).
W206	19A701093P1	Strap.
W207		(Part of printed board 19D423005P1).
W209	19B226733G1	Jumper.
W210	19B226734G1	Jumper.
		- - - - - - - FREQ. SELECTING NETWORKS - - - - - - -
Z701*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV L. Added to GG & GB by REV K. Added to GT & GW by REV H. Added to GD by REV D.
Z703LL*	19A134668P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV L. Added to GG by REV K. Added to GD by REV D.
Z703L*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV K.
Z703M*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GT by REV N.
Z703N*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GW by REV N.
Z704LL*	19A134668P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV L. Added to GG by REV K.
Z704L*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV K.
Z704M*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GT by REV N.
Z704N*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GW by REV N.
Z705LL*	19A134668P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV L. Added to GG by REV K. Added to GD by REV D.

SYMBOL	GE PART NO.	DESCRIPTION
Z705L*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV K.
Z705M*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GT by REV N.
Z705N*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GW by REV N.
Z706LL*	19A116655P102	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV L. Added to GG by REV K.
Z707L*	19A134668P3	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV K.
Z707M*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GT by REV N.
Z707N*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GW by REV N.
Z708LL*	19A134668P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV L. Added to GG by REV K.
Z708L*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV K.
Z708M*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GT by REV N.
Z708N*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GW by REV N.
Z709LL*	19A134668P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV L. Added to GG by REV K.
Z709L*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV K.
Z709M*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GT by REV N.
Z709N*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GW by REV N.
Z710*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV L. Added to GG by REV K.
Z711LL*	19A134668P3	Capacitor, silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV L. Added to GG by REV K.
Z711L*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GS by REV K.
Z711M*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GT by REV N.
Z711N*	19A134668P1	Capacitor, silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Added to GW by REV N.
Z713 and Z714	19A135815G1	Choke, RF. Added to GS by REV N. Added to GP by REV E.
		100 WATT MODULE 19D423000G5 450-470 MHz (LL) 19D423000G6 470-470 MHz (L) 19D423000G7 470-494 MHz (M) 19D423000G8 494-512 MHz (N)
		- - - - - - - - - CAPACITORS - - - - - - - - -
CR201 and CR202	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.

SYMBOL	GE PART NO.	DESCRIPTION
C4204LL*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4204L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4204M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4204N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4205LL	19A116955P39	Metallized teflon: 39 pf ±5%, 250 VDCW.
C4205L	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C4205M	19A116955P32	Metallized teflon: 32 pf ±5%, 250 VDCW.
C4205N	19A116955P28	Metallized teflon: 28 pf ±5%, 250 VDCW.
C4206LL	19A116955P41	Metallized teflon: 41 pf ±5%, 250 VDCW.
C4206L	19A116955P37	Metallized teflon: 37 pf ±5%, 250 VDCW.
C4206M	19A116955P32	Metallized teflon: 32 pf ±5%, 250 VDCW.
C4206N	19A116955P28	Metallized teflon: 28 pf ±5%, 250 VDCW.
C4207*	19A134668P1	Ceramic: 0.01 µf ±50%, 50 VDCW; sim to Erie 8121 SPECIAL. Deleted by REV C.
C4208LL	19A116955P41	Metallized teflon: 41 pf ±5%, 250 VDCW.
C4208L	19A116955P37	Metallized teflon: 37 pf ±5%, 250 VDCW.
C4208M	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C4208N	19A116955P32	Metallized teflon: 32 pf ±5%, 250 VDCW.
C4209LL	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C4209L	19A116955P39	Metallized teflon: 39 pf ±5%, 250 VDCW.
C4209M	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C4209N	19A116955P32	Metallized teflon: 32 pf ±5%, 250 VDCW.
C4210LL	19A116955P43	Metallized teflon: 43 pf ±5%, 250 VDCW.
C4210L	19A116955P37	Metallized teflon: 37 pf ±5%, 250 VDCW.
C4210M	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C4210N	19A116955P28	Metallized teflon: 28 pf ±5%, 250 VDCW.
C4211LL*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4211L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4211M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4211N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4212LL*	19A116655P49J0	Ceramic disc: 4 pf ±5% 50 pf, 500 VDCW; sim to Erie 8121 SPECIAL.
C4212L	19A134100P19	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW.
C4212M*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4212N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4213LL*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4213L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4213M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4213N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4214LL*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4214L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4214M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4214N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4215LL	19A116955P39	Metallized teflon: 39 pf ±5%, 250 VDCW.
C4215L	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C4215M	19A116955P32	Metallized teflon: 32 pf ±5%, 250 VDCW.
C4215N	19A116955P28	Metallized teflon: 28 pf ±5%, 250 VDCW.
C4216LL	19A116955P41	Metallized teflon: 41 pf ±5%, 250 VDCW.
C4216L	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C4216M	19A116955P32	Metallized teflon: 32 pf ±5%, 250 VDCW.
C4216N	19A116955P28	Metallized teflon: 28 pf ±5%, 250 VDCW.
C4217*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4218	19A116192P1	Ceramic: 0.01 µf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C4219LL	19A116955P41	Metallized teflon: 41 pf ±5%, 250 VDCW.
C4219L	19A116955P37	Metallized teflon: 37 pf ±5%, 250 VDCW.

SYMBOL	GE PART NO.	DESCRIPTION
C4219M	19A116955P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4219N	19A116955P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4220LL	19A116955P43	Metallized teflon: 43 pf ±2%, 250 VDCW.
C4220L	19A116955P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4220M	19A116955P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4220N	19A116955P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4221LL*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4221L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4221M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4221N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4222LL	19A116655P49J0	Ceramic disc: 4 pf ±5% 50 pf, 500 VDCW; sim to Erie 8121 SPECIAL.
C4222L	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4222M	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4222N	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4223LL	19A116955P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4223L	19A116955P33	Metallized teflon: 33 pf ±2%, 250 VDCW.
C4223M	19A116955P30	Metallized teflon: 30 pf ±2%, 250 VDCW.
C4223N	19A116955P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4224LL*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4224L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4224M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4224N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4225LL	19A116955P39	Metallized teflon: 39 pf ±5%, 250 VDCW.
C4225L	19A116955P35	Metallized teflon: 35 pf ±5%, 250 VDCW.
C4225M	19A116955P32	Metallized teflon: 32 pf ±5%, 250 VDCW.
C4225N	19A116955P28	Metallized teflon: 28 pf ±5%, 250 VDCW.
C4226LL	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4226M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4226N	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4227*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4228	19A116192P1	Ceramic: 0.01 µf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C4229LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4229L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4229M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4229N	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4230LL	19A116952P43	Metallized teflon: 43 pf ±2%, 250 VDCW.
C4230L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4230M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4230N	19A116952P28	metallized teflon: 28 pf ±2%, 250 VDCW.
C4231LL*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4231L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4231M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4231N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4232LL	19A116655P49J0	Ceramic disc: 4 pf ±5% 50 pf, 500 VDCW; temp coef 0 PPM.
C4232L	19A134100P19	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW.
C4234LL*	19A134668P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4234L*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4234M*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.
C4234N*	19A134668P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM19ACM. Deleted by REV C.

(Cont'd on Page 14)

SYMBOL	GE PART NO.	DESCRIPTION
C4234M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
C4235LL	19A116952P39	Metallized teflon: 39 pf ±2%, 250 VDCW.
C4235L	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4235M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4235N	19A116952P31	Metallized teflon: 31 pf ±2%, 250 VDCW.
C4236LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4236L	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4236M	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4236N	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4237*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
C4238	19A116192P1	Ceramic: 0.01 pf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C4239LL	19A116952P41	Metallized teflon: 41 pf ±2%, 250 VDCW.
C4239L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4239M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4239N	19A116952P32	Metallized teflon: 32 pf ±2%, 250 VDCW.
C4240LL	19A116952P43	Metallized teflon: 43 pf ±2%, 250 VDCW.
C4240L	19A116952P37	Metallized teflon: 37 pf ±2%, 250 VDCW.
C4240M	19A116952P35	Metallized teflon: 35 pf ±2%, 250 VDCW.
C4240N	19A116952P28	Metallized teflon: 28 pf ±2%, 250 VDCW.
C4241LL*	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
C4241L*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
C4241M*	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
C4242LL	19A116565P420	Ceramic disc: 4 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C4242L	19A134100P19	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW.
C4243 thru C4245	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C4246	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C4247	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C4248 thru C4253	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C4265L	19A116565P320	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C4265M	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW.
C4265N	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW.
C4265N	19A116565P320	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C4266M	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW.
C4266N	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW.
C4268*	19B209723P4	Tantalum: 6.8 pf ±20%, 35 VDCW. Added by REV B.
		- - - - - - - - - - TERMINALS - - - - - - - - - -
E4201	19A134263P1	Contact, electrical: sim to Selectro 229-1082-00-0-000.
E4211	19A134263P1	Contact, electrical: sim to Selectro 229-1082-00-0-000.
		- - - - - - - - - - INDUCTORS - - - - - - - - - -
L4201	19A100000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L4202	19A130447G2	Coil.
L4203	19A7010951G1	Coil.
L4204	19A100000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.

SYMBOL	GE PART NO.	DESCRIPTION
L4205	19A130447G1	Coil.
L4206	19A7010951G1	Coil.
L4207	19A700000P20	Choke, RF: 5.6 µh ±10%, 0.28 ohms DC res max.
L4208	19A130447G2	Coil.
L4209	19A7010951G1	Coil.
L4211	19A130447G1	Coil.
L4212	19A7010951G1	Coil.
		- - - - - - - - - - RESISTORS - - - - - - - - - -
R4201	19A700111P39	Composition: 100 ohms ±5%, 2 w.
R4202 and R4203	19A700112P39	Composition: 100 ohms ±5%, 1 w.
R4204 thru R4207	19A700113P15	Composition: 10 ohms ±5%, 1/2 w.
R4208* and R4209*	19A700111P39	Composition: 100 ohms ±5%, 2 w. Earlier than REV A:
	3B78P101J	Composition: 100 ohms ±5%, 1 w.
R4210	19A700111P39	Composition: 100 ohms ±5%, 2 w.
		- - - - - - - - - - TRANSFORMERS - - - - - - - - - -
T4201 thru T4208	19A130446G1	Coil.
		- - - - - - - - - - CABLES - - - - - - - - - -
W4201 and W4202		(Part of printed board 19C321425G1).
W4203 and W4204	19B226708G1	Jumper.
W4211	19A130479P2	Strap.
		- - - - - - - FREQ SELECTING NETWORKS - - - - - - -
A4201LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4201L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4201M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4201N	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4202	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4203LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4203L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4203M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4203N	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4204LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4204L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4204M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4204N	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4205	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4206LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4206L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4206M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.

SYMBOL	GE PART NO.	DESCRIPTION
A4206N	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4207LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4207L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4207M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4207N	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4208	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4209LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4209L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4209M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4209N	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4210LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4210L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4210M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4210N	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4211	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4212LL	19A134666P3	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4212L	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4212M	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4212N	19A134666P1	Silver mica: 18 pf ±5%, 500 VDCW; sim to Electro Motive Type DM15AC8. Deleted by REV C.
A4213 thru A4216	19A134538G1	Choke, RF. Added to G5 by REV H. Added to G9 by REV E. LOW PASS FILTER 19C327026G3 450-512 MHz (LL) 19C327026G4 450-512 MHz (L) 19C327026G5 450-512 MHz (LL) DUPLEX 19C327026G6 450-512 MHz (L) DUPLEX (Added to 19D426985 by REV A)
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C4290LL	19A700014P4	Teflon/mica: 10 pf ±5%, 250 VDCW.
C4290M	19A116592P9	Metallized teflon: 9 pf ±0.5 pf, 250 VDCW.
C4291LL	19A116592P20	Metallized teflon: 20 pf ±0.5 pf, 250 VDCW.
C4291M	19A116592P18	Metallized teflon: 18 pf ±0.5 pf, 250 VDCW.
C4291N	19A116592P13	Metallized teflon: 13 pf ±0.5 pf, 250 VDCW.
C4292M	19A116592P12	Metallized teflon: 12 pf ±0.5 pf, 250 VDCW.
C4293	19A700015P37	Teflon/mica: 220 pf ±5%, 250 VDCW.
		- - - - - - - - - - INDUCTORS - - - - - - - - - -
L4291LL	19B226709G2	Jumper. (Includes L4292LL).
L4291M	19B226709G1	Jumper. (Includes L4294M).
L4291LL		(Part of L4291LL).
L4292M		(Part of L4291M).
		- - - - - - - JACKS AND RECEPTACLES - - - - - - -
J202 and J203	19A130926G1	Connector, receptacle: coaxial, jack type; sim to Cinch 16S11693.

SYMBOL	GE PART NO.	DESCRIPTION
J206 and J207	19A134263P2	Contact, electrical: sim to Selectro 229-1071.
J208	403351IP4	Contact, electrical: sim to Bead Chain LB3-3.
		- - - - - - - - - - RELAYS - - - - - - - - - -
K201	19A700045P1	Hermetic sealed: 180 to 341 ohms coil res, @+16.3 VDC; sim to GE 3SA17106A2, CP Clare HPA-1201038, or Potter-Brumfield MCH810D.
		- - - - - - - - - - CABLES - - - - - - - - - -
W4280 thru W4283		(Part of printed board 19D426367P1).
W4284	19A130607G3	Cable: approx .7 of an inch. LOW PASS FILTER MODULE 19C321424G6 (Deleted from 19D426899 by REV A)
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C4280M	19A116592P9	Metallized teflon: 9 pf ±0.5 pf, 250 VDCW.
C4281M	19A116593P38	Metallized teflon: 38 pf ±0.5 pf, 250 VDCW.
C4292M	19A116593P32	Metallized teflon: 32 pf ±0.5 pf, 250 VDCW.
C4283M	19A700015P37	Teflon/mica: 220 pf ±5%, 250 VDCW.
		- - - - - - - - - - INDUCTORS - - - - - - - - - -
L4281 and L4282	19B226709G1	Jumper.
		- - - - - - - JACKS AND RECEPTACLES - - - - - - -
J202 and J203	19A130926G1	Connector, receptacle: coaxial, jack type; sim to Cinch 16S11693.
J206 and J207		(Part of K201).
J208	403351IP4	Contact, electrical: sim to Bead Chain LB3-3.
		- - - - - - - - - - RELAYS - - - - - - - - - -
K201	19A116723P1	Hermetic sealed: 125 ohms ±20%, 3 Form C contact, 9.6 to 15.6 VDC (over the temp range indicated). Includes J208 & J207).
W4280 thru W4283		(Part of printed board 19D427311P1).
		FRAME ASSEMBLY 19D411529G3
		- - - - - - - - - - CABLES - - - - - - - - - -
W241	5491689P104	Cable, RF: approx 14 inches long.
		- - - - - - - - - - MISCELLANEOUS - - - - - - - - - -
	349217BP2	Washer, spring tension: sim to Wallace Barnes 303-20. (Used with Q202).
	1A702182P1	Spacer. (Used with Q202).
	N207P15C6	Nut, hex: No. 8-32. (Used with Q202).
	N44P9010C6	Screw, machine: No. 4-40 x 5/8. (Used with Q203)
	402997AP1	Insulator, plate. (Used with Q215).
	19A134726P1	Cover. (Q213).
	N210P8C6	Hex nut: No. 4-40. (Secures Q215).
	N402P35C6	Washer, steel: No. 4. (Secures Q215).
	19A115223P3	Washer, shield. (Secures Q215).
	403B994P1	Solderless terminal. (Used with Q215).
	N80P13010C6	Machine screw, phillips head: No. 6-32 x 1. (Secures Filter assembly).

PARTS LIST

ANTENNA MATCHING UNIT
19C330778G1 HIGH BAND
19C330778G2 UHF LOW POWER
19C330778G3 UHF HIGH POWER

SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C1A	19A116192P1	Ceramic: 0.01 pf ±20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C1B	19A116192P2	Ceramic: 470 pf ±20%, 50 VDCW; sim to Erie 8111-A050-W5R-471K.
C2	19A700008P2	Variable, air: 2.28-14.13 pf, 250 VDCW; sim to EF Johnson Type T 187-0108-005.
C3A	19A116656P15J0	Ceramic disc: 15 pf ±5%, 500 VDCW, temp coef 0 PPM.
C4A	19A700008P2	Variable, air: 2.28-14.13 pf, 250 VDCW; sim to EF Johnson Type T 187-0108-005.
C4B	19A700008P1	Variable, air: 2.04-9.0 pf, 250 VDCW; sim to EF Johnson Type T 187-0106-005.
C5A	19A116656P10J0	Ceramic disc: 10 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
		- - - - - - - - - - DIODES AND RECTIFIERS - - - - - - - - - -
CR1	19A700047P3	Silicon; sim to 1N5263.
		- - - - - - - - - - INDUCTORS - - - - - - - - - -
L1A	19A143343P1	Coil.
L1B	19A143343P1	Coil.
		- - - - - - - - - - RESISTORS - - - - - - - - - -
R1	19A700106P31	Composition: 47 ohms ±5%, 1/4 w.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

PRODUCTION CHANGES

Changes in the equipment to improve performance or to simplify circuits are identified by a "Revision Letter," which is stamped after the model number of the unit. The revision stamped on the unit includes all previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.

REV. A - - PA Assembly 19D428895G40-G43
Incorporated in initial shipment.

REV. A-D - 100 Watt Module 19D429306G5-G6
Incorporated in initial shipment.

PRODUCTION CHANGES

Changes in the equipment to improve performance or to simplify circuits are identified by a "Revision Letter," which is stamped after the model number of the unit. The revision stamped on the unit includes all previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.

REV. A - PA Assembly 19D428895G14-17 & C31-34
To incorporate new low-pass filter. Deleted 19C321424. Added 19C327024.

REV. A - 40 Watt Module 19C321474G5-8
To improve power output at cold temperature. Added C8204 & C8305.

REV. B - 40 Watt Module 19C321474G5-8
To improve operation:
In 19C321474C5: Changed C313 and changed C8521LS.
In 19C321474C6: Deleted C8311, C8317, and added C8521LS.
In 19C321474C7: Deleted C8318 and added C8529B.
In 19C321474C8: Changed C8309, C8310 and added C8529B.

REV. A - PA Assembly 19D428895G39
To incorporate new transistor. Changed Q215.

REV. B - PA Assembly 19D428895G14-17, C31-34
To improve operation. Added C309 and R203.

REV. C - 40 Watt Module 19C321474G5
To improve station operation. Added C313.

REV. D - 40 Watt Module 19C321474G6-8
To improve operation. Changed C306.

REV. F - 40 Watt Module 19C321474G5
To improve operation. Changed C306.

REV. I - 40 Watt Module 19C321474G7, 8
To improve RF output.
In 19C321474C7, 8: Changed C236.
In 19C321474C8 : Changed C237.

REV. I - 40 Watt Module 19C321474G6
REV. J - 40 Watt Module 19C321474G7, 8

REV. K - 40 Watt Module 19C321474G5
To improve operation. Changed C207L & C207S. Deleted C208L, C208S, C209L, C209S. Added C209LL designation to C209. Added R203 to groups 6, 7 & 8.

REV. B - 40 Watt Module 19C321474G5
To increase output at 406 MHz. Changed C8521LS. Deleted C8319. Added C8391LS.

REV. A - 100 Watt Module 19D429306G5-8
To improve performance. Changed R4208 and R4209.

REV. B - To improve stability. Added C4268.

REV. F - 40 Watt Module 19C321474G6
To improve stability if PA impedance mismatch occurs. Added C8401 and R8401.

REV. G - To improve operation. Deleted C242.

REV. A - 40 Watt Module 19C321474G9
To correct Parts List. Added C246LL.

REV. H - 40 Watt Module 19C321474G6

REV. L - 40 Watt Module 19C321474G6

REV. G - 40 Watt Module 19C321474G7, 8

REV. C - 40 Watt Module 19C321474G5
To improve operation of Power Control Circuit when used as driver for 100 Watt PA. Added C8403 and C264.

REV. J - 40 Watt Module 19C321474G5

REV. H - 40 Watt Module 19C321474G9
To improve stability. Changed Q203LL.

REV. A - PA Assembly 19D428895G16-17, C31-34
Incorporated in initial shipment.

REV. B - To improve ground between 40 Watt and 100 Watt Module. Added interconnecting 3A Jumper wire between grounds.

REV. J - 40 Watt Module 19C321474G6
To improve power output at low end of 450-470 MHz range. Changed C219.

REV. L - 40 Watt Module 19C321474G5
To increase power output. Deleted C230L and R216. Changed C237 and C252LS.
C230L was: 19A116656P40. Ceramic disc: 4 pf ±0.5, 500 VDCW, temp coef 0 PPM.
C237L was: 19A116592P47. Metallized teflon: 47 pf ±2%, 250 VDCW.
C252LS was: 19A116656P270. Ceramic disc: 7 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
R216 was: 19A700113P15. 10 ohms ±5%, 1/2 w.

REV. N - To improve output power in 450-470 MHz range. Deleted C219L. Changed C219LL. Added C219.
C219LL was: 19A116656P430. Ceramic disc: 34 pf ±5%, 500 VDCW, temp coef 0 PPM.
C252LS was: 19A116656P370. Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.