

**1. ATTACHMENTS**

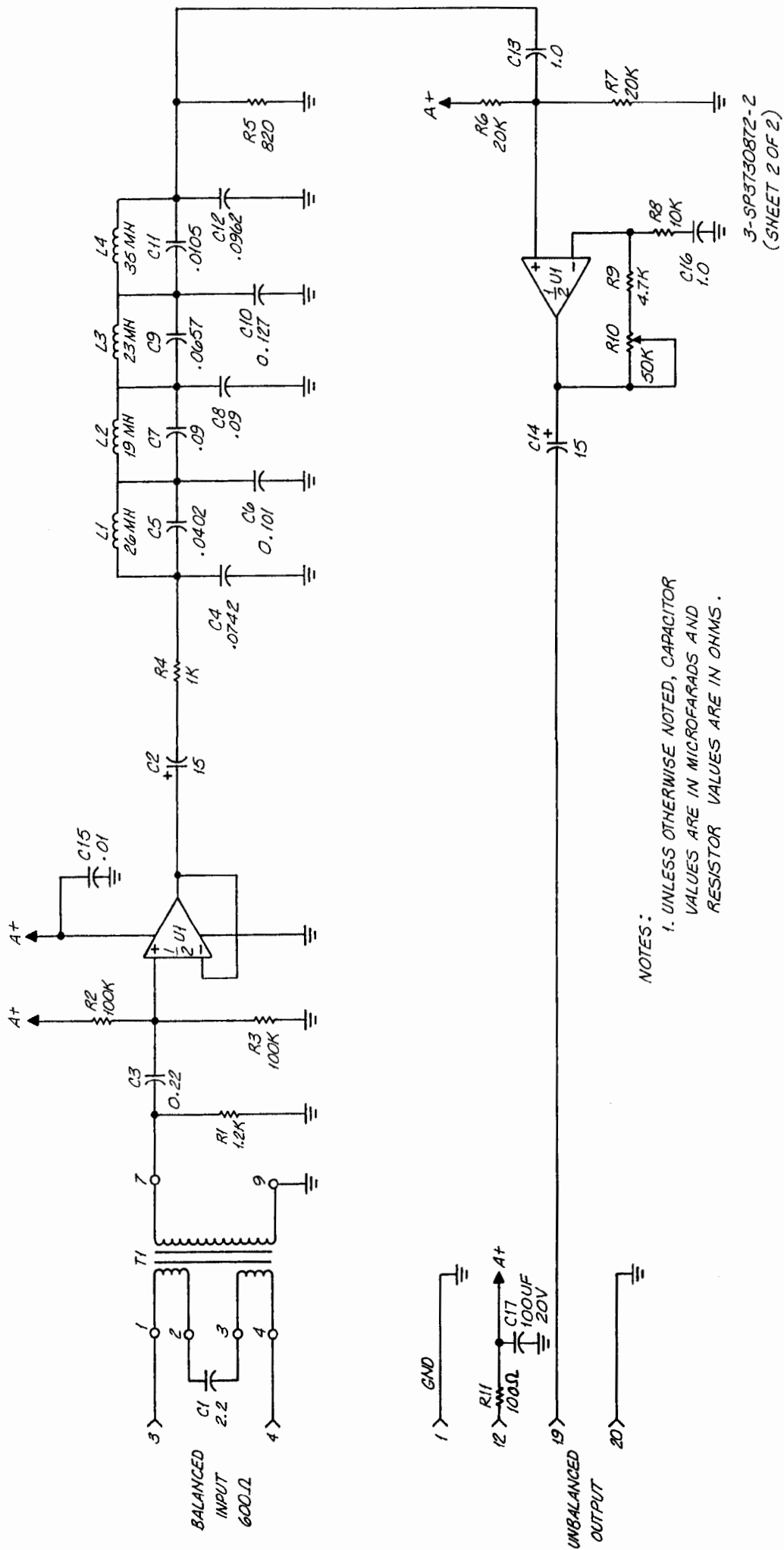
- QRN8498A Voice Frequency Filter Module Diagram 3-SP3730872
- Parts List 3PL-SP3730872

2. DESCRIPTION

The C366AD-SF Option Kit consists of a QRN8498A Voice Frequency "Roofing" Filter Module for use with phone lines when used in conjunction with microwave multiplex audio lines in a Spectra-TAC™ comparator system. A quantity of up to ten of these modules can be used in a comparator cabinet which includes a special TLN1726A-SP67 Comparator Chassis. These modules may also be installed in any unused SQM slots on a standard comparator chassis. The phone line connects to the input of the QRN8498A Filter Module and the output of the filter module connects to the input of SQM module associated with the required Line Input. For schematic details relative to the filter module, refer to the attached diagram 3-SP3730872. A TRN6092A Spark Gap Kit, consisting of two spark gaps, is also supplied as part of this option kit. These spark gaps are installed on the comparator chassis to protect the input to the filter module.

Technical Writing Services

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PARTS LIST

REF SYMBOL	MOTOROLA PART NO.	DESCRIPTION
		<u>CAPACITOR, fixed: μF $\pm 2\%$; 50 V:</u> unless otherwise stated
C1	8-82045F09	2.2 $\pm 10\%$; 250 V
C2	23-84538G23	15 $\pm 20\%$; 20 V
C3	8-82905G12	0.22 $\pm 10\%$
C4	8-85531C17	.0742
C5	8-85531C16	.0402
C6	8-85531C15	0.101
C7, 8	8-85531C14	.09
C9	8-85531C13	.0657
C10	8-85531C12	0.127
C11	8-85531C11	.0105
C12	8-85531C10	.0962
C13	23-84538G14	1.0 $\pm 10\%$; 35 V
C14	23-84538G23	15 $\pm 20\%$; 20 V
C15	21-82428B07	.01 $\pm 20\%$; 100 V
C16	23-84538G14	1.0 $\pm 10\%$; 35 V
C17	23-82601A25	100 μf
		<u>COIL, rf:</u>
L1	24-85539C14	26 mH
L2	24-85539C13	19 mH
L3	24-85539C12	23 mH
L4	24-85539C11	35 mH
		<u>RESISTOR, fixed: $\pm 5\%$; 1/4 W:</u>
R1	6-11009C51	1.2k
R2, 3	6-11009C97	100k
R4	6-11009C49	1k
R5	6-11009C47	820
R6, 7	6-11009C80	20k
R8	6-11009C73	10k
R9	6-11009C65	4.7k
R10	18-84944C13	var. 50k
R11	6-11009C25	100 ohm
		<u>TRANSFORMER, audio:</u>
T1	25-83036L01	line transformer
		<u>INTEGRATED CIRCUIT: (SEE NOTE)</u>
U1	51-83629M41	dual op amp
		<u>MECHANICAL PARTS:</u>
	3-8022	SCREW, machine: 4-40 x 1/4"; 2 used
	4-7683	WASHER, lock; 2 used
	9-83697M01	RECEPTACLE, board mounting; 24 used
	43-865080	BUSHING
	45-83914G01	GUIDE, card; 2 used
	64-06012A52	PANEL, screened

NOTE: For optimum performance,
diodes, transistors, and integrated
circuits must be ordered by Motorola
part numbers.

QRN8498A Voice Frequency Filter Module
Parts List

Motorola No. 3PL-SP3730872-2

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