

Mobile Communications

MASTR[®] III RF PACKAGE, UHF 380-400 MHz 403-425 MHz 410-430 MHz 425-450 MHz 450-470 MHz

TABLE OF CONTENTS

TRANSMIT SYNTHESIZER	LBI-38671
RECEIVE SYNTHESIZER	LBI-38672
RECEIVE RF MODULE	LBI-38673
IF MODULE	LBI-38643
POWER AMPLIFIER	LBI-38674

Maintenance Manual

TABLE OF CONTENTS

	<u>Page</u>
SPECIFICATIONS	3
REGULATORY APPROVALS	4
MODULE NUMBERS	4
ANTENNA SWITCH	5

TABLE 1 - Station Specifications

ITEM	SPECIFICATION
RECEIVER	
SENSITIVITY (12 dB SINAD)	-115 dBm (0.40 μ V) 380-400 MHz -116 dBm (0.35 μ V) 403-425, 410-430, 425-450, 450-470 MHz
SELECTIVITY (25 kHz) -	-90 dB
INTERMODULATION REJECTION	-90 dB (450-470 MHz) -85 dB (450-470 MHz ETSI) (425-450 MHz) (403-425 MHz) (410-430 MHz) (380-400 MHz)
INTERMEDIATE FREQUENCY	21.4 MHz (low side injection) (450-470 MHz) 21.4 MHz (high side injection) (425-450 MHz) (403-425 MHz) (380-400 MHz) (410-430 MHz)
IMAGE REJECTION	-100 dB
SPURIOUS RESPONSE REJECTION	-100 dB
HUM & NOISE (300-3000 Hz)	-55 dB
AUDIO RESPONSE (de-emphasis)	+1/-3 dB of 6 dB/OCTAVE (@ Line Output) +21 -8 dB of 6 dB/OCTAVE (@ Local Speaker)
FREQUENCY SPREAD (range)	450-470 MHz or 425-450 MHz or 403-425 MHz or 410-430 MHz or 380-400 MHz
(full specification)	2 MHz
(3 dB degradation)	3 MHz
TRANSMITTER	
RATED POWER OUTPUT	100 Watts (450-470 MHz) 90 Watts (425-450 MHz) (403-425 MHz) (410-430 MHz) 75 Watts (380-400 MHz)
FREQUENCY STABILITY	± 1.0 ppm
CONDUCTED SPURIOUS EMISSIONS	-36 dBm
MODULATION DEVIATION	± 5 kHz
FM HUM & NOISE (300-3000 Hz)	-55 dB
AUDIO RESPONSE (pre-emphasis)	+1/-3 dB of 6 dB/OCTAVE
FREQUENCY SPREAD (range)	<450-470 MHz or 425-450 MHz or 403-425 MHz or 380-400 MHz or 410-430 MHz
(full specification)	<450-470 MHz or 425-450 MHz or 403-425 MHz or 380-400 MHz or 410-430 MHz

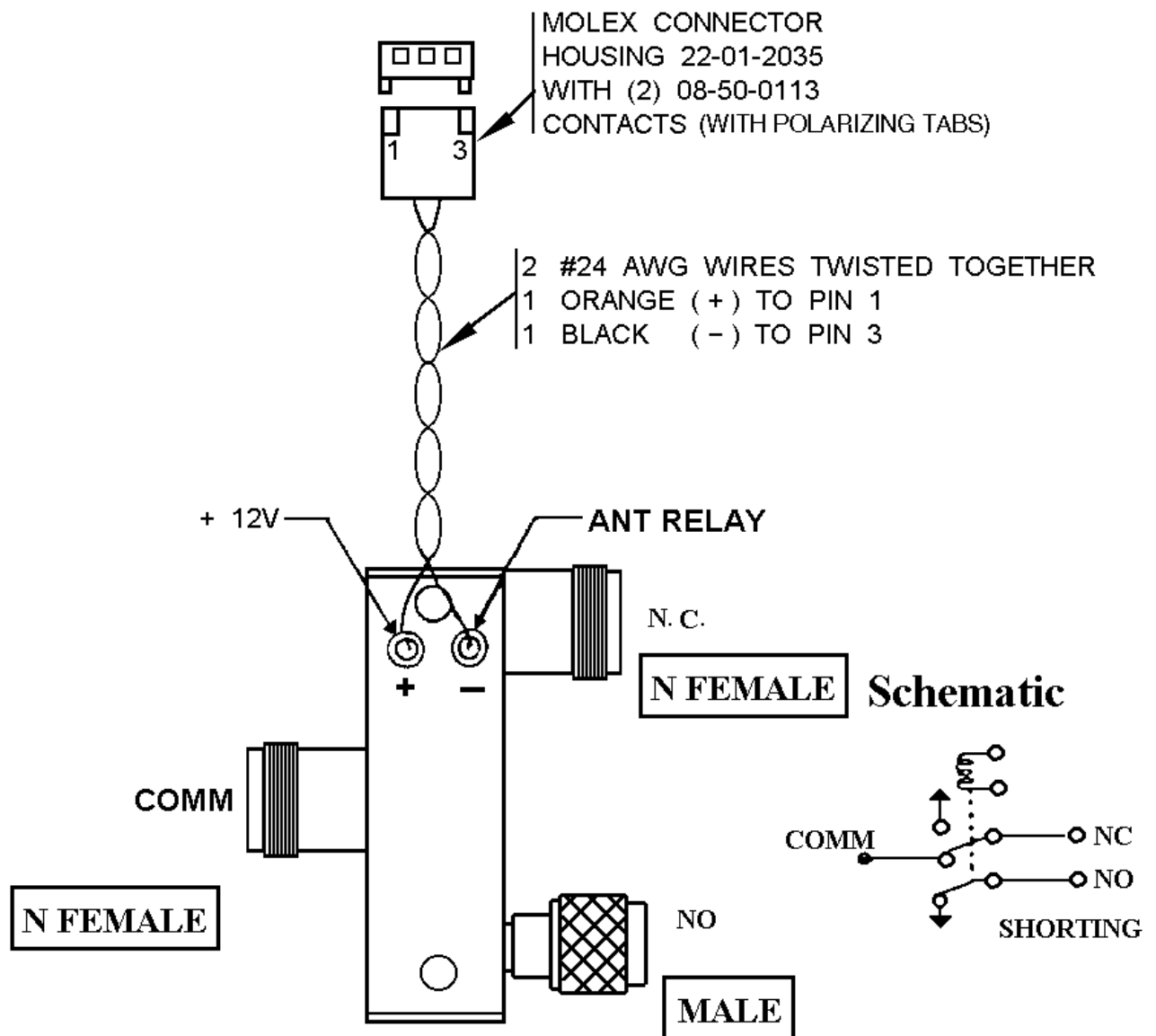
REGULATORY APPROVALS

The following equipment authorization numbers have been granted:

<u>COUNTRY</u>	<u>REGULATORY APPROVAL</u>
United States	FCC (Parts 15, 22, 74, 80, 90) AXATR-307-A2
Canada	DOC (RSS-119)

MODULE NUMBERS

TRANSMIT SYNTHESIZER	(450-470 MHz).....	19D902780G3
	(425-450 MHz).....	19D902780G7
	(403-425 MHz, 410-430MHz).....	19D902780G6
	(380-400 MHz).....	19D902780G8
RECEIVE SYNTHESIZER	(450-470 MHz, 403-425 MHz, 410-430 MHz)	19D902781G3
	(425-450 MHz).....	19D902781G7
	(380-400 MHz).....	19D902781G8
RX FRONT END MODULE	(450-470 MHz).....	19D902782G3
	(425-450 MHz).....	19D902782G7
	(403-425 MHz).....	19D902780G6
	(410-430 MHz).....	19D902780G11
	(380-400 MHz).....	19D902780G8
IF MODULE		19D902783G1
POWER AMPLIFIER	(450-470 MHz).....	19D902797G3
	(425-450 MHz).....	19D902797G7
	(403-425 MHz).....	19D902797G6
	(410-430 MHz).....	19D902797G11
	(380-400 MHz).....	19D902797G8
LOW PASS FILTER		19D902856G1
ANTENNA SWITCH		19B235897P2
DUPLEXER	(440-470 MHz).....	344A4047P1



ANTENNA SWITCH
19B235897P2



Ericsson GE Mobile Communications Inc.
Mountain View Road • Lynchburg, Virginia 24502

Printed in U.S.A.