



Mobile Communications

**MASTR[®] III
RF PACKAGE, UHF
403-425 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)	-116 dBm (0.35 μ V)
SELECTIVITY (25 kHz) -	-90 dB
INTERMODULATION REJECTION	-90 dB (450-470 MHz) -85 dB (450-470 MHz ETSI) (425-450 MHz) (403-425 MHz)
INTERMEDIATE FREQUENCY	21.4 MHz (low side injection) (450-470 MHz) 21.4 MHz (high side injection) (425-450 MHz) 21.4 MHz (high side injection) (403-425 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) (full specification) (3 dB degradation)	450-470 MHz or 425-450 MHz or 403-425 MHz 2 MHz 3 MHz
TRANSMITTER	
RATED POWER OUTPUT	110 Watts (450-470 MHz) 90 Watts (425-450 MHz) (403-425 MHz)
FREQUENCY STABILITY	± 1.5 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) (full specification)	<450-470 MHz or 425-450 MHz or 403-425 MHz <450-470 MHz or 425-450 MHz or 403-425 MHz

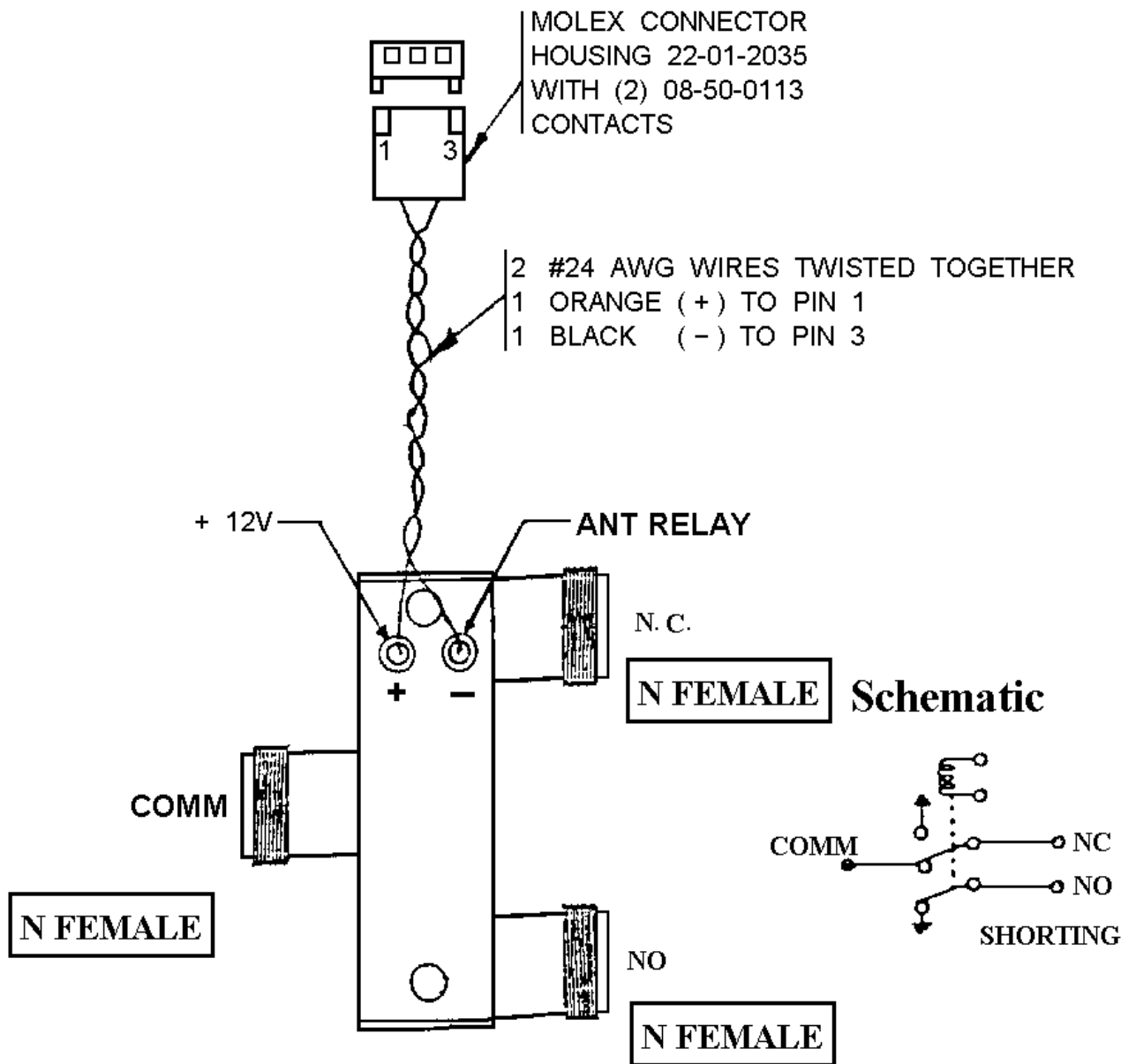
REGULATORY APPROVALS

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)	19D902780G6
RECEIVE SYNTHESIZER (450-470 MHz) (403-425 MHz).....	19D902781G3
(425-450 MHz).....	19D902781G7
RX FRONT END MODULE (450-470 MHz).....	19D902782G3
(425-450 MHz)	19D902782G7
(403-425 MHz)	19D902780G6
IF MODULE.....	19D902783G1
POWER AMPLIFIER (450-470 MHz)	19D902797G3
(425-450 MHz)	19D902797G7
(403-425 MHz)	19D902797G6
LOW PASS FILTER.....	19D902856G1
ANTENNA SWITCH	19B235897P1
DUPLEXER (440-470 MHz).....	344A4047P1



ANTENNA SWITCH
19B235897P1



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