

8. SPECIFICATIONS : MODEL FM-2016A/E

GENERAL

FREQUENCY COVERAGE: 144.000 - 148.995MHz, 10KHz steps & +5KHz, 1000 channels.
144.000 - 148.995MHz, Ditto above receive only, FM-2016E
144.000 - 145.995MHz, Transmit, FM-2016E

SEMI-CONDUCTORS 11 FET, 33 Transistors, 17 IC's and 65 Diodes
MEMORY CHANNELS: 4 Channels
SCANNING: Scanning of 4 memory channels for open and closed channels.
FREQUENCY STABILITY: Better than +.002%
USEABLE TEMPERATURE RANGE: -20°C to +60°C
POWER SOURCE: DC 13.8v, +10% (negative ground)
ANTENNA IMPEDANCE: 50 ohms nominal, unbalanced
CURRENT CONSUMPTION: Less than .4A receive standby, .6A maxium volume
Less than A 15watts, 1.3A 1 watt
DIMENSIONS: 180w x 60h x 195d mm
WEIGHT: 2.5Kgs, transceiver only

TRANSMITTER

FREQUENCY RANGE: 144.000 - 148.995MHz - FM-2016A
144.000 - 145.995MHz - FM-2016E
TYPE OF EMISSION: F3
POWER OUTPUT: 15 watts (HIGH), 1 watt (LOW)
MODULATION CIRCUIT: Reactance modulation (Direct varicap FM of VCO)
DEVIATION: Set at factory to +5KHz
SPURIOUS EMISSIONS: More than 60dB down from carrier
MICROPHONE: 600 ohms dynamic type with P/T switch
REPEATOR TONE: Adjustable internally 60 - 210Hz or 1300 - 1800Hz
Continuous or tone burst with internal switch
FM-2016A set at 100Hz, FM-2016E set at 1750Hz

RECEIVER

FREQUENCY RANGE: 144.000 - 148.995MHz FM-2016A and FM-2016E
TYPE OF EMISSION: F3
RECEIVER CIRCUIT: Double conversion superheterodyne
INTERMEDIATE FREQ: 1st 16.9MHz, 2nd 455KHz
RECEIVER SENSITIVITY: Less than 1uV input for S/N 30dB
Less than .25uV for 20dB quieting
SQUELCH SENSITIVITY: Less than .2uV
BANDWIDTH: +8KHz (6dB)
SELECTIVITY: +16KHz (70dB)
IMAGE RATIO: Better than 70dB
AUDIO OUTPUT: More than 1.5 watts, (THD 10%)
OUTPUT IMPEDANCE: 8 ohms (external speaker jack 4 - 8 ohms nominal)

ACCESSORIES

MICROPHONE: - Dynamic type, 600 ohms, with P/T switch
POWER CABLE: - with fuse holder and 2 prong metal connector
SPARE FUSE: - 5A
EXTERNAL SPEAKER PLUG: - Miniature phone plug type
MOUNTING BRACKET: - with mounting hardware, etc.
INSTRUCTION MANUAL: - with circuit diagram