



**MOTOROLA**

FCC ID: AZ489FT3803

**OPERATIONAL DESCRIPTION**

**I. Transmitter Technical Characteristics—Pursuant 2.983 (d)**

|                                                                       |                                                  |
|-----------------------------------------------------------------------|--------------------------------------------------|
| A. RF Power Output                                                    | 1.0 Watt or 2.3 Watt                             |
| B. Frequency Range                                                    | 151-159 MHz                                      |
| C. Frequency Stability                                                | 0.00025 %                                        |
| D. Emissions Designators                                              | 11K0F3E, 16K0F3E (see General Info.)             |
| E. Spurious Emissions                                                 | 76.1dBc                                          |
| F. DC Voltage and Current into<br>the final RF amplifier stage/stages | 4.8 Volts<br>1 watt /570 mAmps 2 watt/ 820 mAmps |

**II. Transmitter Application**

This transmitter is primarily intended for use in a hand-held two-way portable radio. The following features, options and accessories characterize the radio.

**A. Power Supply Available**

1. NiCad Battery \_\_\_\_\_, Mercury Battery \_\_\_\_\_, Alkaline Battery   X  ,  
AC \_\_\_\_\_, Lead Acid Battery \_\_\_\_\_, Nickel Metal Hydride   X  .

**B. Antenna Available**

1. Helical   X  , Telescopic \_\_\_\_\_, Whip \_\_\_\_\_, Dipole \_\_\_\_\_,  
Dribble External \_\_\_\_\_, External \_\_\_\_\_.

**C. Squelch Types Available**

1. Carrier Squelch   X  .  
2. Tone "Private Line"   X  .  
3. Digital "Private Line"   X  .

**D. Microphone - Control**

1. Handset/Palm Microphone   X  .  
2. 600 Ohm wireline control \_\_\_\_\_.

**E. Maximum Transmit Channel Capability       27      .**

**F. Housing**

The transmitter will be in the housing shown in the accompanying photographs.

**G. Other Options**

- |                                 |                |
|---------------------------------|----------------|
| 1. Single Tone Encoder          | <u>  X  </u>   |
| 2. Multiple Single Tone Encoder | <u>  N/A  </u> |
| 3. Touch Code Encoder           | <u>  N/A  </u> |
| 4. Unit ID Encoder              | <u>  N/A  </u> |
| 5. EMS Telemetry Encoder        | <u>  N/A  </u> |
| 6. Time out Timer               | <u>  X  </u>   |
| 7. Voice Encryption             | <u>  N/A  </u> |
| 8. Digital Signaling            | <u>  X  </u>   |
| 9. Sel-Call Decode              | <u>  N/A  </u> |
| 10. Trunking                    | <u>  N/A  </u> |

EXHIBIT 12