

Specifications

GENERAL	VHF	UHF
Frequency:	146-174 MHz	438-470, 465-495MHz
Channel Capacity:	64	64
Technical RF Output:	Low: 1-25W, High: 25W	Low: 1-25W, High: 25-40W
Dimensions: (H x W x D)	1.73 x 6.67 x 4.64 inch (44 x 169 x 118 mm)	1.73 x 6.67 x 4.64 inch (44 x 169 x 118 mm)
Weight: (radios only)	2.25 lbs (1.02 Kg)	2.25 lbs (1.02 Kg)
Current Drain:	Standby: 0.3A Rx@ rated, external 8 ohm speaker: 1.5A Transmit: 7A (25W), 9.5A (45W)	0.3A 1.5A 8A (25W), 9A (40W)
FCC Designation:	AZ492FT3805 (25W), ABZ99FT3046 (25-45W)	AZ492FT4856 (25W), ABZ99FT4048 (25-40W) ABZ99FT4049 (25-40W)
RECEIVER		
Frequency:	146-174 MHz	438-470, 465-495 MHz
Channel Spacing:	12.5/20/25 kHz	12.5/20/25 kHz
Sensitivity: (12dB EIA SINAD)	0.35µV (12.5 kHz) typical, 0.3µV (25 kHz) typical	0.35µV (12.5 kHz) typical, 0.3µV (25 kHz) typical
Adjacent Channel Selectivity:	65dB (12.5 kHz), 75dB (25 kHz)	60dB (12.5 kHz), 70dB (25 kHz)
Intermodulation:	65dB (12.5 kHz), 75dB (25 kHz)	60dB (12.5 kHz), 70dB (25 kHz)
Frequency Stability: (-30° C to +60° C)	+/- 2.5ppm	+/- 2.5ppm
Spurious Rejection:	-75dB	-70dB
Rated Audio:		
(extended audio with 4 ohm speaker)	4W internal, 13W external	4W internal, 13W external
Audio Distortion @ Rated Audio:	3% typical	3% typical
Hum and Noise:	-40dB (12.5 kHz) -45dB (25 kHz)	-35dB (12.5 kHz) -40dB (25 kHz)
Audio Response:	+1, -3dB	+1, -3dB
Conducted Spurious Emission:	-57dBm < 1GHz -47dBm > 1GHz	-57dBm < 1GHz -47dBm > 1GHz
TRANSMITTER		
Frequency:	146-174 MHz	438-470, 465-495 MHz
Channel Spacing:	12.5/20/25 kHz	12.5/20/25 kHz
Frequency Stability: (-30° to +60° C, +25° C)	+/- 2.5ppm	+/- 2.5ppm
Modulation Limiting:	+/- 2.5 kHz (12.5 kHz) +/- 4 kHz (20 kHz) +/- 5 kHz (25 kHz)	+/- 2.5 kHz (12.5 kHz) +/- 4 kHz (20 kHz) +/- 5 kHz (25 kHz)
FM Hum and Noise:	-40dB (12.5 kHz), -45dB (25 kHz)	-35dB (12.5 kHz), -40dB (25 kHz)
Conducted/Radiated Spurious Emission:		
1-25 W	-36dBm < 1GHz -30dBm > 1GHz	-36dBm < 1GHz -30dBm > 1GHz
25-45 W	-26dBm	-26dBm
Adjacent Channel Power :	-60dB (12.5 kHz), -70dB (25 kHz)	-60dB (12.5 kHz), -70dB (25 kHz)
Audio Response:	+1, -3dB	+1, -3dB
Audio Distortion:	3% typical	3% typical
FM Modulation:	11K0F3 (12.5 kHz), 11K0F3 (12.5 kHz) 16K0F3E (25 kHz), 16K0F3E (25 kHz)	11K0F3 (12.5 kHz), 11K0F3 (12.5 kHz) 16K0F3E (25 kHz), 16K0F3E (25 kHz)

PORTABLE MILITARY STANDARDS 810 C, D, & E

	MIL-STD 810C	MIL-STD 810D	MIL-STD 810E
Applicable MIL-STD	Method Proc	Method Proc	Method Proc
Temp. Shock:	503.1: I	503.2: I	503.3: I
Solar Radiation:	505.1: I	505.2: I	505.3: I
Salt Fog:	509.1: I	509.2: I	509.3: I
Vibration:		514.3: I Cat 1	514.4: I Cat 1
Shock:	516.2: I, III	516.3: I, V	516.4: I, V
Rain:	506.1: II	506.2: II	506.3: II
Dust:	510.1: I	510.2: I	510.3: I

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	-30° C to +60° C
Storage Temperature:	-40° C to +85° C
Thermal Shock:	-40° C to +80° C
Humidity:	85% RH @ 8 Hrs
Water and Dust Intrusion:	IP54
Packing Test:	Impact Test

Accelerated Life Test

Motorola's Accelerated Life Test (ALT) is a developmental process of rigorous laboratory testing that simulates years of field use. Motorola has a firm commitment to quality and reliability. These radios have been designed, manufactured and tested to achieve high levels of component and workmanship quality. Motorola radios are designed to minimize costly repairs and downtime.

*All specifications subject to change without notice.



Whisler Communications

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