

## General Specifications

	CP185	
	VHF - 136-174 MHz	UHF - 405-480 MHz
Channel Capacity	16	
Channel Spacing	12.5 / 25 kHz switchable	
Model Numbers	AAH03KEFBAA7AN	AAH03RDFBAA7AN
FCC ID	AZ489FT3822	AZ489FT4883
IC ID	109U-B9FT3822	109U-B9FT4883
FCC Emissions Designators	11K0F3E	16K0F3E
Dimensions (H x W x L)	4.72 x 2.28 x 1.46 in. (120 x 58 x 37 mm)	
Weight (with Lilon)	12.34 ounces (350 g)	
Average Battery Life @ 5-5-90% Duty Cycle*		
Lilon battery	up to 11 hours	
NIMH battery	up to 10 hours	
High Capacity Lilon battery	up to 16 hours	

## Transmitter

	CP185	
	VHF	UHF
RF Output	2 to 5W	2 to 4W
Frequency Stability <sup>1</sup>	±2.5 ppm	
Spurs and Harmonics	-63dBc / -26dBm @ 5W / -27dBm @ 4W	
FM Hum and Noise Ratio <sup>2</sup>	> 40 dB	
Modulation Limiting <sup>2</sup> (12.5/25 kHz)	≤2.5 kHz / ≤5 kHz	
Audio Response	+1 to -3 dB	
Audio Distortion <sup>1</sup>	< 5%	

## Receiver

	CP185	
	VHF	UHF
Sensitivity <sup>1</sup> (12 dB SINAD)	< -119 dBm (25uV)	
Adjacent Channel Selectivity <sup>2</sup> (12.5/25 kHz)	-65 dB / -70 dB	
Intermodulation <sup>2</sup> (12.5/25 kHz)	>70 dB	
Spurious Rejection <sup>1</sup>	>70 dB	
Audio Distortion <sup>1</sup>	< 5%	
Hum and Noise Ratio <sup>2</sup> (12.5/25 kHz)	> 40 dB	
Conducted Emission	< -57 dBm	
Audio Output @ <5% Distortion	500 mW (at 24 ohm)	

## Military Standards

Applicable MIL-STD	810C		810D		810E		810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II
High Temperature	501.1	L, II	501.2	IIA1, IIA1	501.3	IIA1, IIA1	501.4	I/Hot, II/Hot
Low Temperature	502.1	I	502.2	I/C3, I/C1	502.3	I/C3, I/C1	502.4	I/C3, I/C1
Temperature Shock	503.1	-	503.2	IIA1C3	503.3	IIA1C3	503.4	I
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I
Rain	506.1	L, II	506.2	L, II	506.3	L, II	506.4	L, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-
Soft Fog	509.1	-	509.2	-	509.3	-	509.4	-
Blowing Dust	610.1	I	610.2	I	610.3	I	610.4	I
Blowing Sand	-	-	610.2	II	610.3	II	610.4	II
Vibration	514.2	VIII/F Curve-W	514.3	I/10, I/3	514.4	I/10, I/3	514.5	I/24
Shock	516.2	L, II	516.3	L, IV	516.4	L, IV	516.5	L, IV

## Environmental Specifications

Operating Temperature Range	-30°C to +60°C (Radio)
Water and Dust Intrusion	IP54, MIL-STD

\*5% receive, 5% transmit, 90% standby

<sup>1</sup>All electrical specifications and methods refer to EIA/TIA 603 standards. Specifications shown are typical and subject to change without notice.

## Whisler Communications

2875 R.W. JOHNSON BLVD. SW  
Olympia, WA 98512  
360-352-8777

<http://www.whislercomm.com>



**MOTOROLA**  
Authorized Channel Partner  
Wireless Broadband Devices

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements. Version 1 09/08

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. All other product or service names are the property of their registered owners. © Motorola, Inc. 2008  
CP185 SS