

CP150/CP200 Radio Specifications



GENERAL SPECIFICATIONS

	VHF	UHF
Frequency:	146-174 MHz	438-470 MHz
Channel Capacity:	4 or 16 Channels	4 or 16 Channels
Power Supply:	7.5 Volts ± 20%	7.5 Volts ± 20%
Dimensions with both High Capacity NiCd and Li-ion Battery:	127.5mm H x 61.5mm W x 45mm D (5.0" H x 2.4" W x 1.75" D)	127.5mm H x 61.5mm W x 45mm D (5.0" H x 2.4" W x 1.75" D)
Weight with High Capacity Li-ion Battery:	370g (13.04 oz.)	370g (13.04 oz.)
Weight with High Capacity NiCd Battery:	425g (14.98 oz.)	425g (14.98 oz.)
Average Battery Life @ 5-5-90 Duty Cycle	2W 9 Hrs.	5W 8 Hrs.
High Capacity NiCd Battery:	17 Hrs.	14 Hrs.
High Capacity Li-ion Battery:	17 Hrs.	17 Hrs.
FCC Designation:	AB299FT3045	AB299FT4056

RECEIVER SPECIFICATIONS

	VHF 12.5 kHz	VHF 20/25/30 kHz	UHF 12.5 kHz	UHF 20/25/30 kHz
Frequency:	146-174 MHz		438-470 MHz	
Sensitivity 12dB EIA SINAD:	0.25 µV (typical)		0.25 µV (typical)	
Adjacent Channel Selectivity:	-65 dB	-70 dB	-60 dB	-70 dB
Intermodulation:	-70 dB		-70 dB	
Frequency Stability (-30° C to +60° C):	0.00025%		0.00025%	
Spur Rejection:	-75 dB		-75 dB	
Image and 1/2 I-F Rejection:	-70 dB		-70 dB	
Audio Output @ < 5% Distortion:	500 mW		500 mW	

TRANSMITTER SPECIFICATIONS

	VHF Low 2W	VHF High 5W	UHF Low 2W	UHF High 4W
RF Output:	Low 2W		High 4W	
Frequency:	146-174 MHz		438-470 MHz	
Channel Spacing:	12.5/20/25 kHz		12.5/20/25 kHz	
Frequency Stability (-30° C to +60° C):	0.00025%		0.00025%	
Spurs/Harmonics:	-36 dBm < 1 GHz -30 dBm > 1 GHz		-36 dBm < 1 GHz -30 dBm > 1 GHz	
Audio Response: (from 6 dB/oct. Preemphasis, 300 to 3000Hz)	+1, -3 dB		+1, -3 dB	
Audio Distortion: @ 1000 Hz, 60% Rated Max. Dev.	< 3%		< 3%	
FM Noise:	-40 dB (12.5 kHz) -45 dB (25 kHz)		-40 dB (12.5 kHz) -45 dB (25 kHz)	
FCC Modulation: 20/25/30 kHz 12.5 kHz	16K0F3E 11K0F3E		16K0F3E 11K0F3E	

PORTABLE MILITARY STANDARDS 810 C, D, E, & F

Applicable MIL-STD	810C		810D		810E		810F	
	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2	500.4	1
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2	501.4	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2	501.4	1,2
Temperature Shock	503.1	1	503.2	1	503.3	1	503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2	506.4	1
Humidity	507.1	2	507.2	2,3	507.3	2,3	507.4	3
Salt Fog	509.1	1	509.2	1	509.3	1	509.4	1
Dust	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	8,10	514.3	1	514.4	1	514.5	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4	516.5	1

Applicable to UHF and VHF Specifications.

All specifications are subject to change without notice.

