

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.)
with High Capacity NiCd Battery:	425g (14.98 oz.)		425g (14.98 oz.)
Average Battery Life @ 5-5-90 Duty Cycle	2W	5W	2W
High Capacity NiCd Battery:	9 Hrs.	8 Hrs.	9 Hrs.
High Capacity Li-ion Battery:	17 Hrs.	14 Hrs.	17 Hrs.
FCC Designation:	AB299FT3045		AB299FT4056

RECEIVER SPECIFICATIONS			
	VHF 12.5 kHz	VHF 20/25/30 kHz	UHF 12.5 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
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
RF Output:			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.

