

# CP150™/CP200™ Portable Two-Way Radio Specifications\*

## General Specifications

	VHF	UHF
Frequency:	136-162 MHz 146-174 MHz	438-470 MHz, CP200 Only: 403-440 MHz, 465-495 MHz
Channel Capacity:	4 or 16 Channels	4 or 16 Channels
Power Supply:	7.2 Volts ± 20%	7.2 Volts ± 20%
Dimensions: with 1100 mAh NiCd and 1800 mAh Li-ion Batteries: with 1400 mAh NiMH Battery:  with 1600 mAh Slim 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 61.55mm W x 43mm D (5.0" H x 2.4" W x 1.69" D) 127.5mm H x 61.55mm W x 42mm D (5.0" H x 2.4" W x 1.65" D)	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 61.55mm W x 43mm D (5.0" H x 2.4" W x 1.69" D) 127.5mm H x 61.55mm W x 42mm D (5.0" H x 2.4" W x 1.65" D)
Weight: with 1800 mAh Li-ion Battery: with 1600 mAh Slim Li-ion Battery: with 1400 mAh NiMH Battery: with 1100 mAh NiCd Battery:	370g (13.04 oz.) 374g (13.19 oz.) 444g (15.66 oz.) 425g (14.98 oz.)	370g (13.04 oz.) 374g (13.19 oz.) 444g (15.66 oz.) 425g (14.98 oz.)
Average Battery Life @ 5-5-90 Duty Cycle: 1800 mAh Li-ion: 1600 mAh Slim Li-ion: 1400 mAh NiMH: 1100 mAh NiCd:	2W                      5W 17 Hrs.                14 Hrs. 14 Hrs.                12 Hrs. 11 Hrs.                10 Hrs. 9 Hrs.                 8 Hrs.	2W                      4W 17 Hrs.                14 Hrs. 14 Hrs.                12 Hrs. 11 Hrs.                10 Hrs. 9 Hrs.                 8 Hrs.
FCC Designation:	ABZ99FT3045	ABZ99FT4056, ABZ99FT4057, ABZ99FT4058

## Receiver Specifications

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

## Transmitter Specifications

	VHF	VHF	UHF	UHF
RF Output:	Low 2W	High 5W	Low 2W	High 4W
Channel Spacing:	12.5/20/25 kHz	12.5/20/25 kHz	12.5/20/25 kHz	12.5/20/25 kHz
Frequency Stability: (-30° C to +60° C)	0.00025%	0.00025%	0.00025%	0.00025%
Spurs/Harmonics:	-36 dBm < 1 GHz -30 dBm > 1 GHz	-36 dBm < 1 GHz -30 dBm > 1 GHz	-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 3000 Hz)	+1, -3 dB	+1, -3 dB	+1, -3 dB	+1, -3 dB
Audio Distortion: @ 1000 Hz, 60% Rated Max. Dev.	<3%	<3%	<3%	<3%
FM Noise:	-40 dB (12.5 kHz) -45 dB (25 kHz)	-40 dB (12.5 kHz) -45 dB (25 kHz)	-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	16KOF3E 11KOF3E	16KOF3E 11KOF3E	16KOF3E 11KOF3E	16KOF3E 11KOF3E

## CP150/CP200 Portable Military Standards

	810C	810C	810D	810D	810E	810E	810F	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

## 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.

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