

General Specifications	P165 & P185	
	VHF	UHF
Frequency Range	136-174MHz	403-447MHz 435-480MHz
Channel Capacity	99 CH	
Channel Spacing	12.5/20/25 kHz switchable	
Operating Temperature Range	-20°C to +55°C	
Storage Temperature Range	-40°C to +85°C	
Dimensions (H X W X D) with Lilon battery NiMH battery High Capacity Lilon battery	120 x 55 x 35.5 mm 120 x 55 x 36.5 mm 120 x 55 x 40.7 mm	
Weight with Lilon battery NiMH battery High Capacity Lilon battery	335g 395g 340g	
Average Battery Life @5-5-90% Duty Cycle, with Lilon battery NiMH battery High Capacity Lilon battery	High Power up to 11 hrs up to 9 hrs up to 16 hrs	
Sealing	Rated IP54 - protected against harm from dust or water spray	
Shock & Vibration	Diecast body with impact resistant polycarbonate housing, Meets MIL-STD810C/D/E/F	
Dust & Humidity	Weather resistant housing Meets MIL-STD810C/D/E/F	

Transmitter	High Power 5W	Low Power 1W	High Power 4W	Low Power 1W
RF Output				
Spurs and Harmonics	9kHz - 1GHz <-36dBm >1GHz <-30dBm			
Frequency Stability (-20°C to +55°C)	1.5 kHz @ 12.5 kHz 2.0 kHz @ 20/25 kHz			
Modulation Limiting	≤ ± 5KHz @ 25KHz ≤ ± 4KHz @ 20KHz ≤ ± 2.5KHz @ 12.5KHz			
Audio Response (from 6dB/oct pre-emphasis, 300-3000Hz)	≤ +1/-3dB			
Audio Distortion @ 1kHz tone, 60% rated max dev.	<5%			

Receiver	
Sensitivity (20dB SINAD)	< -107 dBm (1µV/50 Ohm)
Adjacent Channel Selectivity	>70dB (25kHz), >65dB (12.5kHz)
Intermodulation	>65dB
Spurious Rejection	>70dB
Audio Distortion	<5%
Conducted Emission	< -57dBm for below 1GHz < -47dBm for above 1GHz
Audio Output @ <5% Distortion	500mW (at 24 ohm)

Military Standards	810C		810D		810E		810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Temperature Shock	503.1	-	503.2	I/A1C3	503.3	I/A1C3	503.4	I
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I
Humidity	507.1	II	507.2	II	507.3	II	507.4	-
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24

* Availability subject to individual country's law and regulations. Radios meet applicable regulatory requirements. All specifications listed are typical and are subject to change without notice. Specifications are issued for guidance only.

Conforms to R&TTE directive 1999/5/EC

To ensure compliance with RF energy exposure standards and regulations, use only Motorola-approved batteries and accessories.

Contact your local Motorola Authorised Dealer to find out more about how communicating with Motorola radios will benefit your organisation.

Version 1 05/09



Stringent Motorola Accelerated Life Testing simulating five years of hard use in real life. EA RS-2168 in Shock, Vibration, Dust, Humidity, IP54 for Sealing



Compliance with ISO 9001 Standard an international quality system assurance on design, development, production, installation and servicing of a product.



Stamp of Approval from the U.S. Military for use in rough environments



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For more information please contact your local Motorola Authorised Dealer or Distributor



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