SL8050





## **MOTOTRBOTM SL8050**

GENERAL SPECIFICATIONS					
Channel Capacity	1000				
Frequency	403 - 470 MHz				
BT70 Li-ion (1400mAh) Bttery Weight:	4.76 Wx 2.17 H x .78 T inches (121 x 55 x 19.8 mm) 5.39 oz/ 153 g				
BT90 Li-ion (1800mAh) Battery Weight:	4.76 W x 2.17 H x .78 T inches (121 x 55 x 19.8 mm) 5.82 oz / 165 g				
Power Supply	3.7 V (Nominal)				
Operating Temperature	-20 ~ +60 °C1				
FCC Description	ABZ99FT4090				
IC Description	109AB-99FT4090				
Average battery life at 5/5/90 duty cycle v	vith battery saver enabled <sup>2</sup>				
BT70 Li-ion (1400mAh) Battery (Shipped standard in SL8050 model)	8.5 hrs				
BT90 Li-ion (1800mAh) Battery	11.5 hrs				
RECEIVER					
Frequencies	403 - 470 MHz				
Channel Spacing:	12.5 kHz				
Frequency Stability	±1.5ppm				
Digital Sensitivity	5% BER : 0.3uV				
Rated Audio	0.5W				
Conducted Spurious Emission (TIA603D)	-57dBm				
TRANSMITTER					
Frequencies:	403 - 470 MHz				
Channel Spacing	12.5 kHz				

Frequency Stability	±1.5ppm
Low Power Output	2W
4FSK Digital Modulation	12.5kHz Data: 7K60F1D & 7K60FXD 12.5kHz Voice: 7K60F1E & 7K60FXE Combination of 12.5kHz Voice and Data: 7K60F1W
Conducted/Radiated Emission (TIA603D)	-36 dBm < 1GHz / -30 dBm > 1GHz
Digital Vocoder Type:	AMBE+2™
Digital Protocol	ETSI TS 102 361 -1,-2,-3
<b>ENVIRONMENTAL SPECIF</b>	ICATIONS
Operating Temperature	-20° C to +60° C
Storage Temperature	-30° C to +70° C
Thermal Shock	Per MIL-STD
Humidity	8 hr soak @ +50° C and 95% RH
ESD	IEC 61000-4-2
Dust and Water Intrusion	IP54
Salt Fog	8 hrs exposure to 5% saline solution (sodium chloride) at 35° C, 16 hours standing period
Packaging Test	MIL-STD 810D and E
BLUET00TH®	
Version	Supports Bluetooth® 2.1 + EDR Specification
Range	Class 1, 10 meters

## **MILITARY STANDARDS**

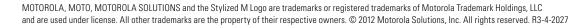
	MIL-STD-810C		MIL-STD-810D		MIL-STD-810E		MIL-STD-810F		MIL-STD-810G	
	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
APPLICABLE MIL-STD										
Low Pressure:	500.1	I	500.2	II	500.3	II	500.4	II	500.4	II
High Temperature	501.1	I	501.2	I/A1,II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I/A1, II/A1
Low Temperature	-	-	502.2	I/C1, II/C1	502.3	I/C1, II/C1	502.4	I/C1, II/C1	502.5	I/C1, II/C1
Temperature Shock	-	-	503.2	I/A1/C1	503.3	I/A1/C1	503.4	1	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	1	505.5	I/A1
Rain	506.1	I	506.2	I	506.3	I	506.4	1	506.5	I
Dust	510.1	I	510.2	I	510.3	I	510.4	1	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, III/3	514.5	1/24	514.6	1/24
Shock	516.2	II	516.3	IV	516.4	IV	516.5	IV	516.6	IV, VI

<sup>&</sup>lt;sup>1</sup> Radio only - Li-ion battery -10C

Radio meets applicable regulatory requirementes. Version 1 1/12

For more information on how to make sleek and stylish work for you, visit motorolasolutions.com/slseries







Please contact your Motorola sales representative for battery runtime expectations based on your specific radio configuration.

Specifications subject to change without notice. All specifications shown are typical.