



## 51LT<sup>Series</sup> Portable Radio

700/800 MHz

The 51LT Series Portable Radio is rugged, lightweight, versatile, and designed for public safety. This radio is ideal for public safety agencies seeking a simple solution to P25 compliance.

If you need a straightforward portable radio that is flexible and interoperable, then make the 51LT your clear product choice.



EFJohnson is a leading provider of Project 25 compliant two-way radios and communication systems for law enforcement, fire fighters, EMS, and military.

### Key Features and Benefits

- Model II configuration (display with Basic Keypad)
- 16 Position Channel Selector
- 3 Position Rotary Switch for Zone Control
- 48 Channel/Talkgroups
- Emergency Button
- Menu Function
- 7 Programmable Keys
- 5100 Series compatible battery, chargers and audio accessories

### Simplified ordering – choose the package that's right for you

- Choose between P25 Trunking or SMARTNET/SmartZone with P25 Conventional
- Both packages offered in 700/800 MHz or 800 MHz only
- 800 MHz models are field upgradeable to add 700 MHz

Are you currently operating a SMARTNET/SmartZone system but migrating to P25 trunked? Buy the SMARTNET/SmartZone package today and upgrade to P25 trunking with a field software change.

# 51LT<sup>Series</sup> Portable Radio

Typical Performance Specifications

GENERAL	700/800 MHz*
Frequency Range	764-870 MHz
Channel Spacing	12.5 kHz, 25 kHz
Maximum Frequency Separation	Full Bandsplit
FCC Type Acceptance Certification	ATH2425171
Industry Canada Type Certification	IC: 933B-2425171
FCC Emissions Designators	11K0F3E, 16K0F3E, 14K0F3E, 8K10F1E, 8K10F1D
Input Voltage	7.2
Dimensions (w/o antenna) (HxWxD)	6.65" x 2.55" x 1.80"
Weight (without battery)	11 oz. (312 g)
Case	Polycarbonate-black
Temperature Range	-30°C to +60°C

TRANSMITTER	
RF Power Output 700 MHz	2.5 W
RF Power Output 800 MHz	3 W
Frequency Stability (-30°C to +60°C)	±1.5 ppm
Modulation Limiting	
25 kHz channels	±5 kHz
12.5 kHz channels	±2.5 kHz
Modulation	C4FM/FM
Emissions (Conducted/Radiated)	-60 dBc
Audio Response	+1, -3dB
FM Hum and Noise	
25 kHz channels	-40 dB
12.5 kHz channels	-35 dB
Audio Distortion	5%

RECEIVER	
Audio Output Power	500 mW
Frequency Stability (-30°C to +60°C)	±1.5 ppm
Sensitivity	
EIA	0.35 uV (-116 dBm)
5% BER	0.35 uV (-116 dBm)
Selectivity	
Adjacent Channel Analog	70 dB
Adjacent Channel Digital	60 dB
Intermodulation per EIA	-70 dB
Spurious Rejection	-70 dB
Hum and Noise	-40 dB
Rated Audio	0.5 W
Audio Distortion at Rated Audio	5%
Audio Response (0.3 - 3 KHz)	+1 to -3 dB

BATTERIES			
Battery Type	Dimensions (HxWxD)	Weight	Approx. Life (5/5/90)
Extra-High Capacity NiMH	6.0" x 2.3" x 0.85"	0.81 lbs	700/800 MHz: Minimum 12 hours
Alkaline Battery Clamshell	7.2" x 2.6" x 2.0"	0.98 lbs (w/12 AA batt.)	14-16 hours

\* 700 MHz on 7/800 Model only  
800 MHz only model software upgradeable to add 700 MHz

## ENVIRONMENTAL SPECIFICATIONS

Environment	Mil Spec	810F
	M	P
Low Pressure	500.4	II
High Temp.	501.4	I, II
Low Temp.	502.4	I, II
Temp. Shock	503.4	I
Solar Radiation	505.4	I
Rain/Blown Rain	506.4	I, II
Humidity	507.3	II, III
Salt Fog	509.3	I
Dust and Sand	510.4	I
Vibration	514.5	I(24)
Shock	516.5	I, IV, VI

M=Method P=Procedure  
Also meets equivalent superseded C, D, and E standards  
\*Optional

**EFJohnson®**  
Our Mission—Your Safety

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