

EFJohnson's Viking<sup>®</sup> Solution portfolio offers products catering to mission critical communication systems. Viking P25 subscribers offer a broad set of capabilities to fully meet the communication needs of our customer networks with interoperability, reliability, and maximum flexibility.

# AN/PRC127EFJ .

The AN/PRC127EFJ radio provides tactical and secure AES, intra-squad communications at the lowest echelons for Counterinsurgency Operations Command and Control.







NSN: 5820-01-567-6589 UHF Model

NSN: 5820-01-567-6582 VHF Model

# COMBAT LAND MOBILE RADIO (CLMR)

- Lightweight aluminum casting & polycarbonate housing is strong and has immersion rating (IP67 Standard)
- Meets applicable MIL Standard 810C, D, E, and F specs
- JF 12 Certified
- FM intrinsically safe (VHF radios only)

### **P25 COMPLIANT**

- Supports P25 CAI (Common Air Interface)
- Trunked and conventional system protocols
- Over-the-Air rekeying (OTAR) functionality

## **FLEXIBLE**

- Supports narrowband (12.5 kHz) & wideband (25 kHz) channel spacing with multiple system protocols
- Industry-standard encryption capabilities such as AES, DES-OFB, DES, and FIPS 140-2
- Easy radio programming & feature updating with EFJohnson's PC Configure<sup>™</sup> software

### **ACCESSORY SUITE**

 Complete line of accessories including speaker mics, cases, NiMH and Li-Ion batteries, and chargers







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### **TYPICAL PERFORMANCE SPECIFICATIONS**

# AN/PRC127EFJ UHF | VHF

GENERAL	VHF	UHF R1	
Frequency Range	136-174 MHz	380-470 MHz	
Channel Spacing	12.5 kHz, 25 kHz		
Max Freq. Separation	Full Bandsplit		
FCC Type Acceptance Certification	ATH2425111	ATH2425131	
Canada Type Certification	IC:933B-2425112	IC:933B-2425131	
FCC Emissions Designators	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D	
Input Voltage	7.2V		
Dimensions (w/o antenna) HxWxD	6.7" x 2.52" x 1.8" (6.4 cm x 17.0 cm x 4.6 cm)		
Weight (w/o standard battery)	11 oz. (312 g)		
Case	Polycarbonate-black   Immersion rated option available for all housings		
Temperature Range	-30°C to +60°C		
Vocoder	AMBE+2		

Environmental Specifications			
Environment	Mil Spec	810F	
	М	Р	
Low Pressure	500.4	Ш	
High Temp.	501.4	I, II	
Low Temp.	502.4	١, ١١	
Temp. Shock	503.4	I	
Solar Radiation	505.4	I	
Rain/Blown Rain	506.4	I, III	
Humidity	507.4	NA	
Salt Fog	509.4	NA	
Dust and Sand	510.4	I.	
Vibration	514.5	l (24)	
Shock	516.5	I, IV	
Immersion*	512.4	I	

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

Transmitter	VHF	UHF R1	
RF Power Output	5/1 W	4/1 W	
Frequency Stability (-30°C to +60°C)	±1.5 ppm		
Modulation Limiting 25 kHz Channels	±5	kHz	
Modulation Limiting 12.5 kHz Channels	±2.5 kHz		
Emissions (Conducted/Radiated)	-75 dBc		
Audio Response	+1,-	3 dB	
FM Hum and Noise 25 kHz Channels	-45 dB		
FM Hum and Noise 12.5 kHz Channels	-40	dB	
Audio Distortion	2'	%	

Receiver	VHF	UHF R1
Audio Power Output	500	mW
Frequency Stability (-30°C to +60°C)	±1.5	ppm
Analog Mode Sensitivity: 12 dB SINAD	0.25 uV (-	119 dBm)
Digital Mode Sensitivity: 5% BER	0.25 uV (-	119 dBm)
Selectivity: 25 kHz Channels	-75	dB
Selectivity: 12.5 kHz Channels	-63	dB
Intermodulation	-75	dB
Spurious & Image Rejection	-75	dB
FM Hum and Noise 25 kHz Channels	-40	dB
FM Hum and Noise 12.5 kHz Channels	-35	dB
Audio Distortion	29	%

Battery	Dimensions (HxWxD)	Weight	Approx. Life (5/5/90)
Extra-High Capacity NiMH	6.0" x 2.3" x 0.85"	12.96 oz	UHF/VHF: Minimum 10 hours 700/800 MHz: Minimum 12 hours
Extra-High Capacity NiMH, IS	6.0" x 2.3" x 0.85"	12.96 oz	UHF/VHF: Minimum 10 hours 700/800 MHz: Minimum 12 hours
Alkaline Battery Clamshell	7.2" x 2.6" x 2.0"	15.68 oz w/12 AA Battery	14-16 hours
High Capacity Lithium Ion	6.5" x 2.3" x .78"	8.1 oz	12 hours

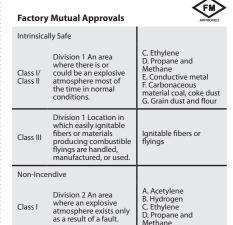
Specifications are measured per TIA 102.CAA-B, TIA 102.CAAB-B and per TIA 603-C. All EFJohnson radios are made in the U.S.A.

All specifications are subject to change without notice. Please check our website for the latest revision. 5.14.13 © Copyright 2013 EFJohnson

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Encryption Options		
Supported Encryption	AES, DES, DES-OFB	
Encryption Key/ Radio	64 Common Key Reference (CKR), 64 Physical Identifier, (PID), Compatible w/ Motorola Key Variable Loader	
Encryption Frame Re-sync Interval	P25 CAI 360 MSEC	
Encryption Keying	External Key Loader, OTAR	
Synchronization	CFB-Cipher Feedback OFB-Output Feedback	
Vector Generator	National Institute of Standards and Technology (NIST) Approved random number generator	
Encryption Type	Digital	
Key Erasure	Keyboard Command	
Code Key Initialization	Internal Pseudorandom Generator	
Standards	FIPS 46-3, FIPS 81, FIPS 140-2, FIPS 197	



Class I

