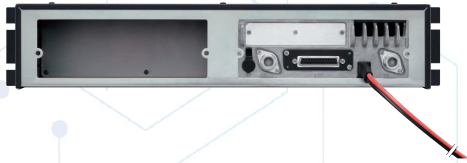




RNG-RPT3 VHF REPEATER

- Flexible Migration Path From Analog to Digital
- Wide Frequency Range 136-174MHz
- Spectrum Efficiency
- Flexible IP Network Possibilities
- Improved Audio Quality and Coverage

FEATURES



The RNG-RPT3 can receive both analog and digital mode signals on a single channel. You can partially introduce digital radios, while still maintaining the existing analog radios in the system.

The RNG-RPT3 uses only 2U height. This low profile configuration allows you to stack multiple units in an industry standard 19-inch rack and provides great spacing efficiency.

The 12-digit dot-matrix display, 5 programmable buttons, 32 memory channels and internal speaker allow you to use the repeater as a simple base station or to check repeater activity.

The RNG-RPT3 has class leading receiver performance of selectivity and intermodulation rejection. It improves the quality of the repeater service even under congested band conditions.

MECHANICAL DATA	
Dimensions (WxHxD)	483×88×260 mm ; 32×315/32×101/4 in
Weight (nominal)	5.6kg ; 12.3lb (approx.)

ENVIRONMENTAL DATA	
Temperature Range	-30 °C to +60 °C; -22 °F to +140 °F

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

Rev. G

TECHNICAL DATA

PERFORMANCE SPECIFICATIONS	
Frequency	Tx 435 to 450 MHz; Rx 469 to 470 MHz
Number of Channels	Max. 32 channels
Channel Spacing	6.25/12.5/25kHz 7.5/15.0/30kHz
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω (Type-N x2)
Type Of Emission	Wide: 16K0F3E, Narrow 11K0F3E/F7E/F7D/F7W, 8K50F3E* (* VHF EXP version only), Digital 4K00F1E/F1D/F3E
Power Supply Voltage	13.6VDC
Current Drain (at 13.6VDC)	TX 50W 15A; RX Max. audio 1.9A; Stand-by 500mA; 400mA (FAN, LCD backlight off)
Transmitter	
Output Power	50W (adjustable to 5W), 25W at 100% duty cycle
Max. Frequency Deviation	±5.0/2.5kHz (wide/narrow)
Spurious Emissions	80dB typ.
Adjacent Channel Power	73/67dB typ. (wide/narrow)
FM Hum And Noise	50/45dB typ. (wide/narrow)
Audio Harmonic Distortion	1% typ. (40% deviation)
Microphone Impedance	600Ω (8-pin modular)
Receiver	
Sensitivity	FM (W/N) : 0.30μV typ. (at 12dB SINAD) Digital 0.25μV typ. (at 5% BER)
Spurious Response	90dB typ.
Intermodulation Rejection	78dB typ.
Audio Output Power	4.0W typ. at 5% distortion with 4Ω load
External Speaker Connector	2-conductor 3.5 (d) mm (1/8")/4Ω
Hum and Noise Ratio	50/45dB typ. (wide/narrow)

becker
VARIS SMART MINING SOLUTIONS

Tel +1 705 674 8111

Fax +1 705 674 7834

Becker Varis
122 Dell Street, Unit A
Sudbury, Ontario, P3C 2Y1
Canada

info@ca.becker-mining.com
www.becker-mining.com