

RF-15000 Repeater

General*

Frequency Range	14.50—15.35 GHz
Nominal Gain	40 dB (15 dB AGC-ALC)*
Maximum Gain	55 dB (0 dB AGC-ALC)*
Fade Compensation AGC/ALC	15 dB down fade 5 dB up fade
Gain Adjust*	0-15 dB
Noise Figure	8.5 dB*
3rd Order Intercept	+31 dBm
Antenna Ports	WR62, Cover
Return Loss	>20 dB

Nominal Signal Levels

	Nominal Input	Nominal Output
FSK	-19 dBm	+21 dBm
4PSK	-21	+19

Frequency Plan

Channel	
Bandwidth	28 MHz, 1 dB
T-R Spacing	180 MHz, min.
T-T Spacing	70 MHz, min.
(on common feeders)	

* AGC/ALC range will be reduced by an amount equal to the reduction of maximum gain.

Channel Response

Amplitude	± 0.5 dB, fo ± 15 MHz
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Power Requirements (Duplex)

Nominal Voltage	+13.5 VDC
Voltage Range	+11.5 to +16 VDC
Current	2.0A (1+0, Duplex)
Polarity	Neg. Ground

Environmental

Housing	Weathertight Aluminum
Ambient Temp.	-40 to +60 C
Relative Humidity	90% (housing internal) 100% (housing external)
Altitude	15,000 feet (4600 meters)

Dimensions (Appx.)

Height	33.1 inches (841 mm)
Width	24 inches (610 mm) with vent hoods
Depth	9.1 inches (231 mm)
Weight	40 lbs. (18.2 kg)

Reliability

MTBF	85,000 hours
MTTR	30 minutes

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Peninsula Engineering Solutions, inc. may change specifications as necessary to meet industry requirements.

