RADITEK INC.

RoHS COMPLIANT

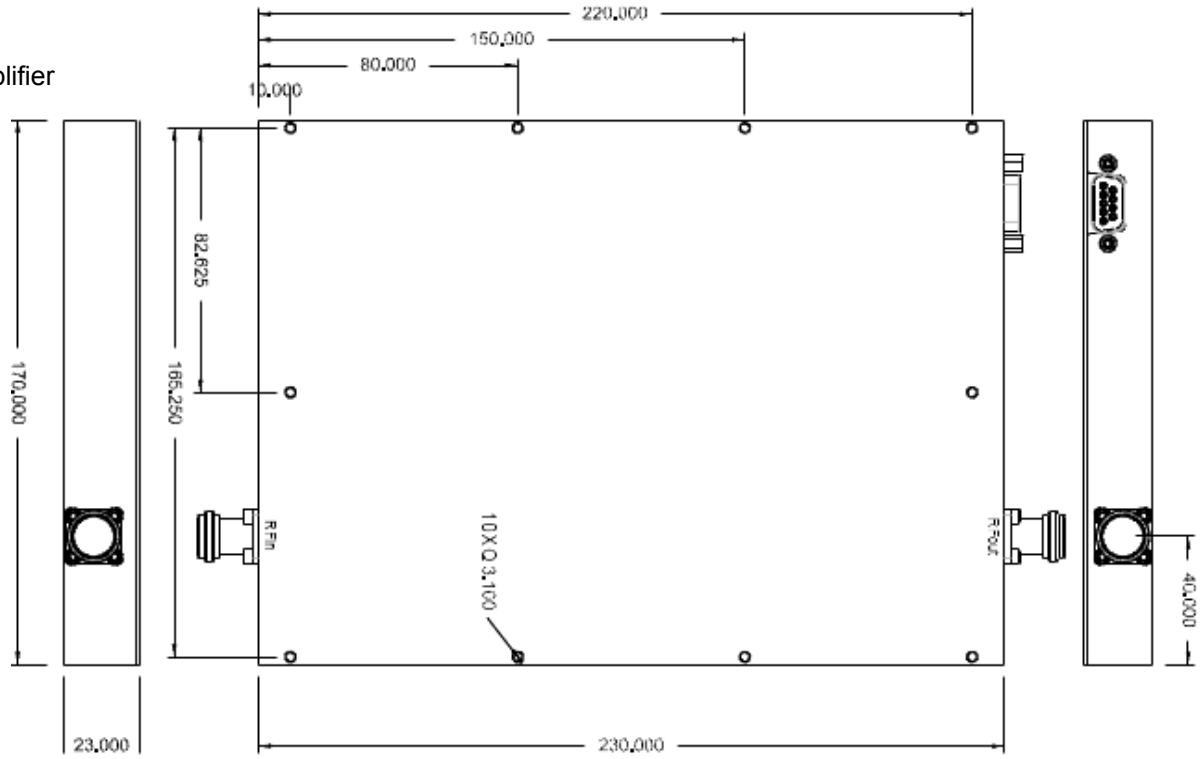
code-h15

High Power Amplifier, Solid State, Broadband

500-2500MHz, 50dB Gain, SMA to N Female connector, 100Watts Power

Features

- High Gain.
- High Power Amplifier
- Single Supply
- Wide Band Amp



Order Examples: **RAMP-500-2500M-50d-Sf-Nf-100W-h15**

Description: (*Amplifier, 500-2500MHz, 50dB Gain, SMA female In, N female out connector, 100Watts)*

Control Interface - J1 (Male 15 pin DTYPE Connector)			
D-Type Connector Pin	Operation	In / Out	Voltage/Command
1	Power Supply	Input	+28V
2	Power Supply	Input	+28V
3	Power Supply	Input	+28V
4	Power Supply	Input	+28V
5	Temp. Sensor	Output	750mv @ 25° [10mv/1°C]
6	GND	Input	GND
7	GND	Input	GND
8	GND	Input	GND
9	RF Shutdown	Input	0V=RF off 5V=RF on

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Electrical Specifications

Parameter	Specification @ 25ºC	Conditions	Units
Frequency	800-2500	Temp=25 ºC ANT. Matching=50Ω	MHz
Small Signal Gain	50		dB min
Power Flatness @ Psat	±1.0		dB
Psat	100		Watts min
Input Return Loss	-12		dB max
Spurious signals	<-50		dBc
Harmonics @Pout=100W	<-20		dBc
DC Current @ Pout=100W	15		A Max
Input Voltages	28		Volts
Mechanical			
Dimensions	230 x 170 x 23		mm
RF connectors	In: SMA Out: N female		
DC connectors	D-Sub 9 pin male		
Absolute Maximum Ratings			
Pin	15		dBm
Load VSWR	90 @ all angels		Watts
DC Voltage	30		V
Altitude (MIL-STD-810F Method 500.4)	30,000		feet
Shock / Vibration (MIL-STD-810F Method 516.5)	Airborne		Inches
Storage Temp. Range	-55 to 125		ºC
Operating Temp. Range	0 to 85		ºC

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