

RADITEK

SSPA 150Watts

Solid State Power Amplifier 225-1000 MHz 150 Watts CW Power

- Amplifier should be mounted on a heat sink with forced air cooling.

01 Model Features

- RF sample monitoring via SMA female connector
- DC monitoring of RF output level



Order Examples: RAMP-M-225-1000M-Sf-20d50V-150Wcw-opt-d16

Option - 01 With Interface and 02 Without Interface, Protection and Alarms (see below)

Description: (SSPA, Module, (225-1000MHz), 20dB Gain, 50Volt, SMA female Connectors, 150 Watts Continuous)

Parameter	Specifications	Units
Operating Frequency Range	225-1000	MHz
Class	A,B	
Gain	20	dB
Max Output Power (P1)	150W CW	Watts
Output power flatness	± 1dB	dB
RF input power	0 ± 2 dbm,	dBm
Max i/p power without damage	+10 dBm	dBm
Turn on time	<100	msec
Input and Output VSWR	1.5:1 max (Note: Unit shall accept a load VSWR up to 2.5:1 without damage)	:1
Duty Cycle	100 max	%
Remote control	RS422 / RS485	
ON OFF isolation	Better than -60	dBc
Harmonics	-20 at P1	dBc
Out of band Spurious levels	-70	dBc
System power supply	+50V is internally switched	VDC
Input and Output Impedance	50 Ω ±1	Ohms
Operating temperature	-40 to +70*	°C

Interface, Protection and Alarm Options

OPTION #	-01 (Includes ALL listed Options Below)	-02
Transient Protection	/RFI Filter, Suitable surge protection to be provided by user	None
Control interface	D38999 SERIES III Circular connector	None
RF Output sample	SMA Female	None
M&C Interface RS422-DB25	a Forward & Reflected power	f. Voltage & Current of critical modules used in SSPA
	b Output VSWR	G. Forward power monitoring
	c. Duty Cycle	H. Reflected power monitoring
	e Temperature	I. Temperature health
Protection Against Damage	I. Over Temperature, automatic shutdown (resets when temperature returns to normal)	
	II. Over-current (automatic shutdown, requires resetting the unit to clear it)	
	III. Excess VSWR	
	IV. RF input over drive > +10dBm	
Alarms	Over temp. with auto clear; Over-current, with man. clear, VSWR, I/P Over drive	None

Customer to install adequate heat sink and forced air cooling to ensure temperature does not exceed 70°C

RAMP-M-225-1000M-Sf-20d50V-150Wcw-opt-d16

Specifications may be subject to change

02/07/14

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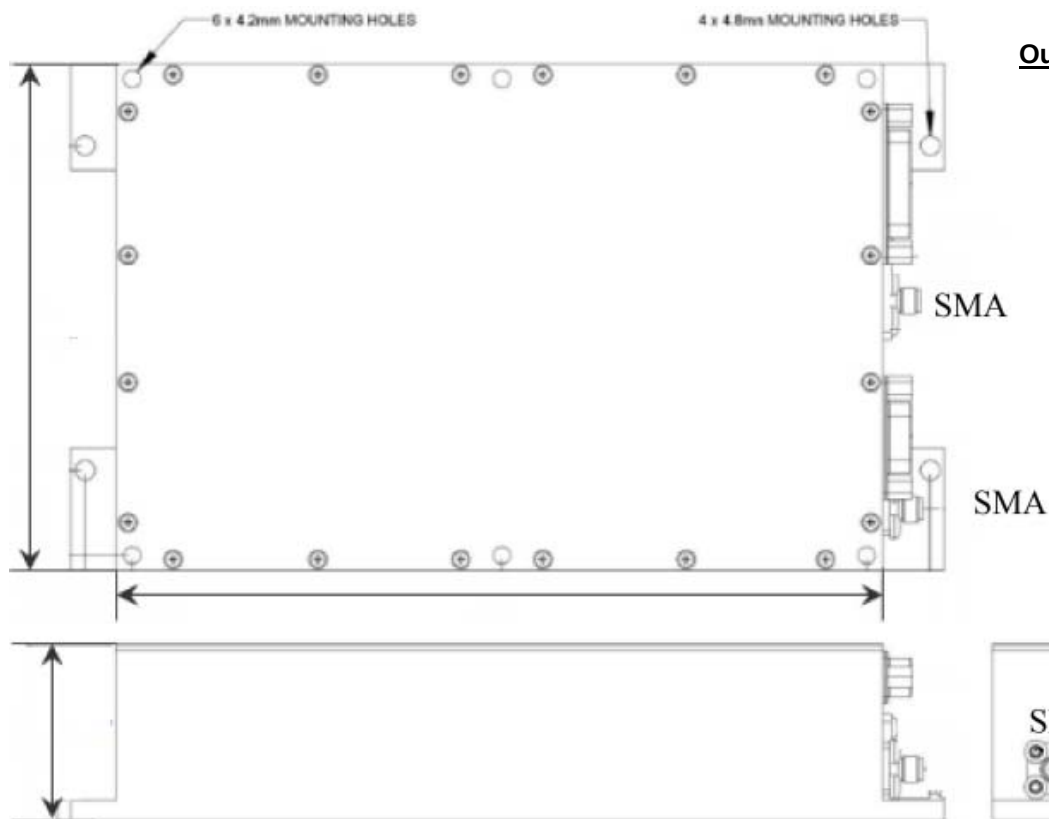
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Solid State Power Amplifier Module 225-1000MHz 150 Watts CW Power

Mechanical Specifications		Units
Type of Package	Module 15" x 10" x 3.5"	Inches
Mounting arrangement	Horizontal	
Cooling	Forced Air	
Weight	<17 Lbs max	Lbs
Interfacing connectors		
RF Input RF Output sample	SMA Female	
RF output	SMA	
DC Line	D38999 SERIES III Circular connector	
Front Panel Control & Indicators	LED indication to be provided for power ON and RF power o/p.	
Finish & Paint	Alodine	
General notes	Power and Signal connectors have mating caps with metallic bead chain.	
Environmental & EMI/EMC	Mil std 461F (Designed to meet but not tested)	



Outline drawing & dimension