

Solid State Power Amplifier, General Communication 1200-1400MHz, 44dB Gain, SMA Female Connectors, 16 Watts CW

RAMP-1200-1400M-44d-Sf-16W-CW-e7



- Solid-state class A linear design
- Instantaneous broadband
- Excellent Phase Linearity and Group Delay Characteristics
- Small and lightweight
- Suitable for all modulations CW/FM/PM/AM/Pulse/Digital
- 50 Ohm Input/Output impedance
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS @ T= 25°C, VDD=+13VDC; 50 Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	1200		1400	MHz
Power Output CW	P _{SAT}	16	20		Watt
Output Power @ 1dB Gain Compression Point	P _{1dB}	12	15		Watt
Gain @ P1 dB Gain Compression Point	G _{1dB}	44	45		dB
Input Power for Rated Output	P _{IN}		0		dBm
Small Signal Gain Flatness	ΔG			±1.0	dB
Input/Output VSWR @ 50 Ω	S11/S22			2:1	-
Noise Figure	NF			10	dB
Third Order Intercept Point	IP3		+51		dBm
Harmonics @ 1dB Gain Compression Point	H		-20		dBc
Spurious Signals	Spur		-70	-60	dBc
Operating Voltage	VDC	12	13	15	Volt
Current Consumption	I _{dd}		5	7	Amp

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Temperature	T _c	0		+50	°C
Storage Temperature	T _{stg}	-40		+85	°C
Relative humidity (non-condensing)	RH	95			%
Altitude (MIL-STD-810F Method 500.4)	ALT	10,000	30,000		Feet
Shock / Vibration (MIL-STD-810F Method 516.5)	SH / VI		Airborne		

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	6.8x2.63x0.75	Inch	Max
Weight	1.5	lb.	Max
RF Connectors In/Out	SMA female		
Cooling	External Heatsink and forced air		

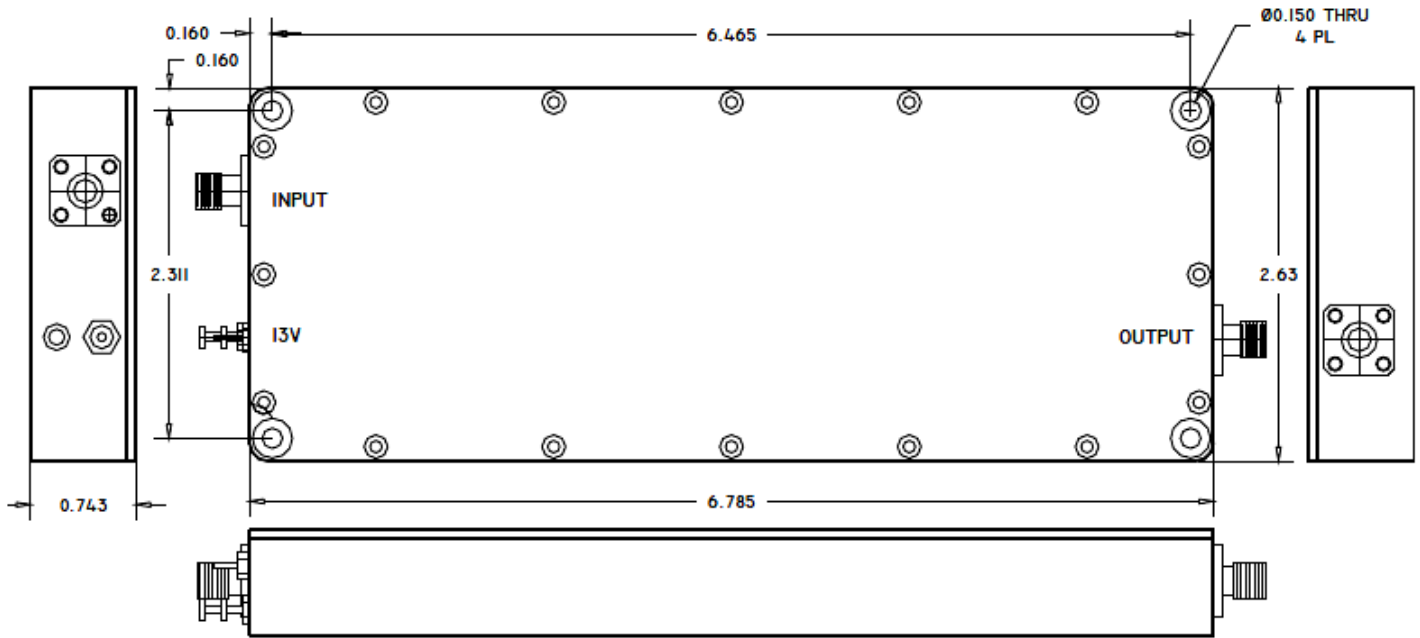
PROTECTIONS

Input Overdrive	+10 dBm	Max
Load VSWR	Infinite @ all load phase & amplitude	Nom
Thermal Overload	85°C shutdown	Typ

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OUTLINE DRAWING



SHOWN WITH OPTIONAL HEATSINK

