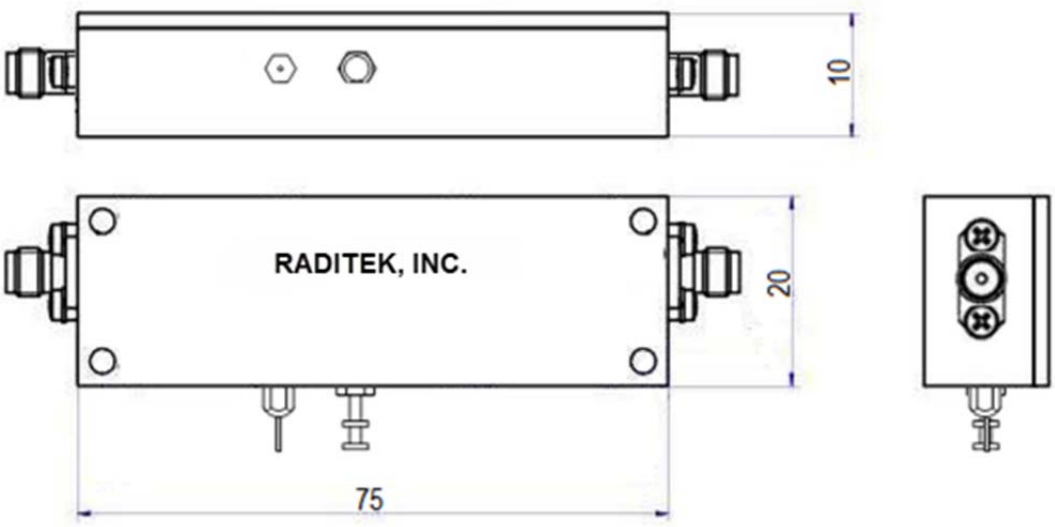
RAMP-6-18-1W-c1

AMPLIFIER, 6-18GHz, 1Watt



Units: mm
Not to scale

Order Examples: **RAMP-6-18-1W-c1**
Description: *(Amplifier, 6-18GHz-1Watt)*

Description	Units	Specification
Frequency	GHz	6-18
Input drive level	dBm	-1 to +1
Power @ 1 dB G.C.P.	dBm	27 (Min.) – 29 (Max)
Gain @ 1 dB G.C.P.	dB	26 (Min) – 30 (Max)
Harmonics (min) @ 6 GHz	dBc	10 or better
Gain flatness over the bandwidth	dB	±1.5 max
Gain variation over temp	dB	±2 max
Noise figure	dB	6 max
Phase tracking	deg	±5 (max) or better
Gain tracking	dB	±1.0 max or better
VSWR (Input & Output)		2.5:1 max
Spurious	dBc	better then -50
AM/PM	Deg/dB	3deg (max) in linear region
Input/output connectors		SMA (F)
DC voltage	Volts	+13.5 to +15 (max)
DC Current	Amp	1.7 A max
Input & output Impedance	ohm	50±1
Operating modes	-	Both pulsed and CW
Dimension (max)	mm	75mm (L) x 20mm (W) x 10mm (H) (max)
Sealing		Hermetic

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Environmental Specifications

Description	Specification	Operational/Nonoperational
Burn-In	8 hours at room temperature	Operational with proper heatsink
Random Vibration	Random Spectrum 20-1000Hz: 0.04g2/Hz PSD, 3-axis, 1 Hr/axis	Non-operational
Mechanical Stock	Shock Pulse: Half Sine Pulse Peak: 15g, Duration: 11msec. No. of shocks: 18	Non-operational
Acceleration	3.6g along all 6 axes for 1min along each direction Non-operational	Designed to meet No facility for testing
High Temperature (Storage)	+85°C for 8 hours (1 cycle)	Non-operational
High Temperature (Operation)	+71°C for 30 min +60°C for 60 min +55°C for 4 hr	Operational -with proper heatsinks in climate chamber Output power is reduced at +71°C
Combined Altitude, Temperature and Humidity (10 cycles)	Temperature: -40°C to +60°C Altitude: 11kms RH: 75% Operational	Designed to meet, No facility for testing.
Humidity Test (10 cycles)	Temp: +30°C to +60°C RH 85% to 95% 1 Cycle is 24 Hr	Non-operational
Salt Fog 4 Cycles	Exposure to 2 Hrs Drying period: 22 Hrs at 35°C , 1 cycle is 24 hours	Non-operational Designed to meet No facility for testing
Transit Drop	26 drops, 1 on each surface edge and corner Drop from 48” height (in package condition)	Non-operational Designed to meet
Bench Handling	4 drops on each face From 4” height or 45° angle whichever is less	Non-operational Designed to meet
EMI/EMC	MIL STD 461-E	Specific test cases are required

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