

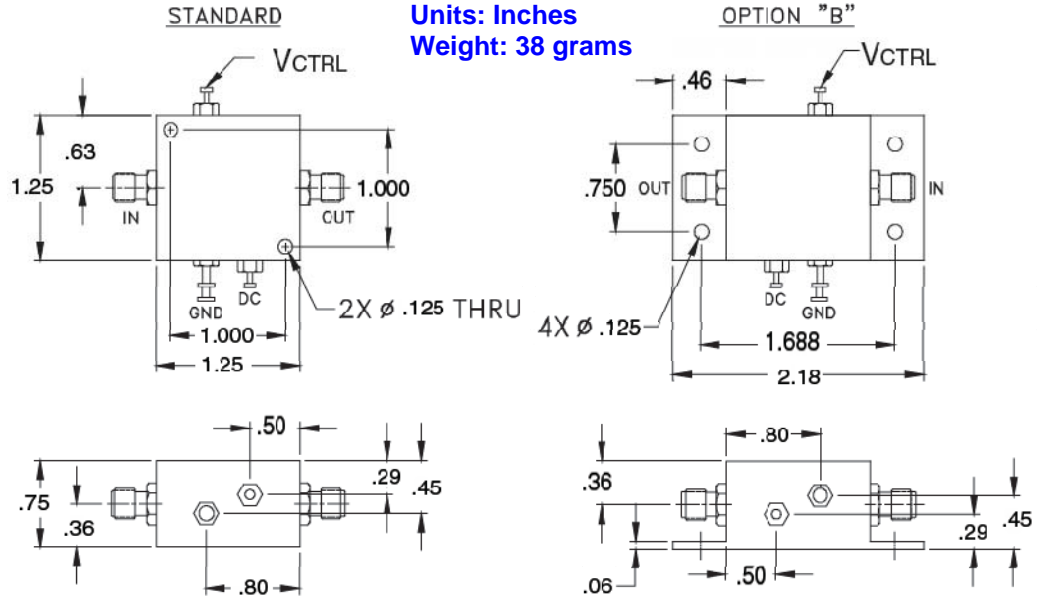
Amplifier, 10-1200MHz, 32dB (typ.) Gain SMA Female Connectors, 17 Volts

Features:

- Wideband, 10 to 1200 MHz
- Rugged, shielded case
- Gain control range: 60 dB typ.
- Gain control voltage: 0 to +5V
- Variable gain: +34 to -26 dB

Applications:

- Cellular
- VHF/UHF
- AGC applications



Units: Inches
Weight: 38 grams

Order Examples: RAMP-10-1200M-32d-Sf-17V-n4

Description: (Amplifier, 10-1200MHz, 32dB typical Gain, SMA Female Connectors, 17Volts)

Electrical Specifications at 25°C, $V_{CTRL}=0V$ (or open)

Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		10	—	1200	MHz
Gain	10-1200	29	32	—	dB
Gain Flatness	10-1200	—	±1.3	—	dB
Output Power at 1dB compression	10-1200	—	+13	—	dBm
Output Power at 3dB compression	10-1200	—	+15	—	dBm
Noise Figure	10-1200	—	5.5	—	dB
Output third order intercept point	10-1200	—	+28	—	dBm
Output second order intercept point	10-1200	—	+50	—	dBm
Input VSWR	10-1200	—	1.25	—	:1
Output VSWR	10-1200	—	1.5	—	:1
DC Supply Voltage		—	15	—	V
Supply Current		—	—	230	mA

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

V_{CTRL} : Gain Control Voltage.

Maximum Ratings

Parameter	Ratings
Operating Temperature	-20°C to 71°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V
VCTRL	0 to +5.5V
Input RF Power (no damage)	+10 dBm

Permanent damage may occur if any of these limits are exceeded

**Gain Flatness, $V_{CC}=15V$,
10-1200 MHz**

V_{CTRL} (V)	Gain Flatness (dB) Typ.
0 or open	±1.3
1	±1.5
2	±2.2
3	±3.3
4	±1.0
5	±1.0

RAMP-10-1200M-32d-Sf-17V-n4

Specifications may be subject to change

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WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.

Tel: (408) 266-7404

FAX: (408) 266-4483

WEB: www.raditek.com

E-mail: sales@raditek.com

Amplifier, 10-1200MHz, 32dB (typ.) Gain SMA Female Connectors, 17 Volts

Electrical Performance at 25°C, VCC=15V, V_{CTRL}=0V

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		POUT at 1 dB COMPR. (dBm)	POUT at 3 dB COMPR. (dBm)	NOISE FIGURE (dB)	IP3 (dBm)	IP2 (dBm)
			IN	OUT					
10.00	34.34	13.91	1.21	1.50	15.17	16.74	6.21	31.32	51.99
50.00	34.52	19.18	1.17	1.25	15.73	16.79	5.24	32.59	50.30
100.00	34.46	37.95	1.16	1.24	16.01	17.13	4.86	33.86	51.13
200.00	34.18	53.92	1.12	1.35	16.35	17.49	4.92	33.33	54.02
300.00	33.91	42.75	1.14	1.43	16.99	17.95	4.55	32.84	56.51
500.00	33.48	41.56	1.21	1.56	17.51	17.89	4.81	29.62	52.37
600.00	33.33	47.04	1.24	1.57	17.57	17.92	4.86	28.70	53.34
800.00	33.06	53.89	1.28	1.53	17.40	17.76	4.92	26.78	52.99
1000.00	32.64	36.54	1.31	1.43	16.81	17.70	4.81	24.53	52.46
1100.00	32.38	39.49	1.33	1.38	16.70	17.02	5.16	23.89	53.92
1200.00	32.12	35.67	1.35	1.33	16.27	16.58	4.99	22.97	55.74

Typical Performance Curves

