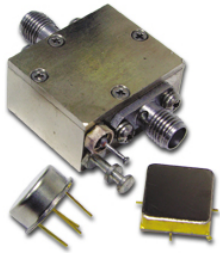


RF/Microwave Amplifier



Features

- Frequency Range: 100 – 300 MHz
- Low Noise Figure: 1.8 dB
- Environmental Screening Available

Technical Specifications

Characteristic	Typical +25 °C	Min/Max 55°C to +85 °C
Frequency (MHz)	100 – 300 MHz	100 – 300 MHz
Gain (dB)	33.5	32 Min.
Gain Flatness (dB)	+1.0	---
Noise Figure (dB)	1.3	2.2 Max.
Power Out @1 dB Compression (dBm)	+22	+20 Min.
3 rd Order Intercept (dBm)	+35	---
2 nd Order Intercept (dBm)	+40	---
Reverse Isolation (dB)	40	---
VSWR		
In	1.3:1	1.5:1 Max.
Out	1.3:1	1.5:1 Max.
DC Current (mA)	95	100 Max.
DC Voltage (V)	+15	+15

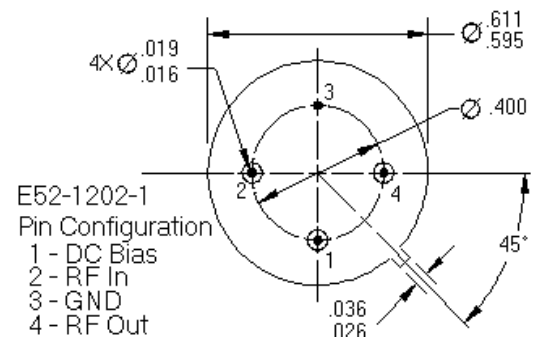
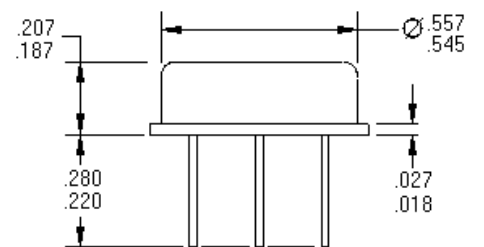
Absolute Maximum (No Damage) Ratings

Sustained Voltage (Vdc)	+18 volts
Pulsed (Transient) Voltage (V)	+18 volts
Operating Temperature	-55 to +125 °C
Storage Temperature	-65 to +150 °C
Maximum Input Drive (Vrms)	+1.0
Thermal Rise, Junction-Case	+46 °C

Note:

- Specifications are guaranteed when tested in a 50 Ohm system.
- Specifications indicated as typical are not guaranteed.
- Outline drawing below to be used as reference only.

Outline Drawing (TO-8B)



Linear S-Parameter Data

Frequency (MHz)	S11		S21		S12		S22	
	Mag (dB)	Angle	Mag (dB)	Angle	Mag (dB)	Angle	Mag (dB)	Angle
100	-20.0	-43.0	33.8	-68.0	-42.0	130.0	-20.0	147.0
125	-21.0	-44.0	33.8	-86.0	-41.0	118.0	-20.0	132.0
150	-21.0	-42.0	33.9	-104.0	-41.0	107.0	-21.0	113.0
175	-21.0	-38.0	33.9	-123.0	-41.0	95.4	-22.0	91.5
200	-20.0	-40.0	33.8	-142.0	-41.0	82.8	-23.0	64.4
225	-19.0	-53.0	33.8	-160.0	-41.0	71.7	-24.0	32.8
250	-19.0	-72.0	33.7	-179.0	-40.0	62.1	-23.0	0.1
275	-18.0	-97.0	33.6	162.0	-40.0	50.6	-22.0	-29.0
300	-16.0	-125.0	33.4	142.0	-40.0	40.3	-21.0	-55.0

Typical Performance Data

