Model # BR9556

Available as:
BR9556, SMA Connectorized Housing (H2)

RF/Microwave Amplifier

Features

- Low Noise Figure: < 1 dB Typical
- Low +5 volt supply powered through the SMA Output Port.
- Unconditionally Stable
- Environmental Screening Available

Technical Specifications

CHARACTERISTIC	TYPICAL Ta=25°C	MIN/MAX Ta = -55°C to +85°C
Frequency (MHz)	1200 - 1700	1200 - 1700
Gain (dB)	27	25.0 Min.
Power @ 1 dB Comp. (dBm)	+15	+14 Min.
Reverse Isolation (dB)	-38	-36 Max.
VSWR In	1.8:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	<1.0	1.75 Max.
Power Vdc	+5*	+5*
mA	60	63 Max.

Maximum (No Damage) Ratings

Storage Temperature	-55°C to + 100 °C
Operating Temperature	-62°C to + 125 °C
Case Temperature	+ 125 °C
DC Voltage	+ 8 Volts
Continuous RF Input Power	+ 13 dBm
Short Term RF Input Power	50 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 µsec Max.)

Typical Intermodulation Performance at 25°C

Second Order Harmonic Intercept Point:	+46 dBm (Typ.)
Second Order Two Tone Intercept Point:	+46 dBm (Typ.)
Third Order Two Tone Intercept Point:	+26 dBm (Typ.)

Notes:

- Care should always be taken to effectively ground the case of each unit.
- +5 volt operation powered through the SMA Output Port.
- The unit's +5 volt Bias will operate off +5 volts dc supplied through the RF Output Port.
- The model BR9556 housing will retain the standard dimensions (Length, Width, and Height) found aboard the existing H2 Housing, however, there will not be a separate DC Connector for the +5 volt supply.

Typical Performance Data

Legend ——— + 25 °C – – – + 85 °C - - - - - - -55 °C