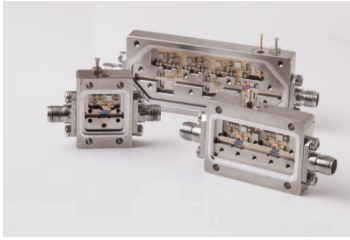


RF/Microwave Amplifier



Features

- Low Noise Figure
- Unique +12 volt Design
- Environmental Screening Available

Technical Specifications

Characteristic		TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency		5 – 12 GHz	5 – 12 GHz
Gain (dB)		22	21 Min./23 Max.
Power @ 1 dB Comp. (dBm)		+21	+20 Min.
Reverse Isolation (dB)		-30	---
VSWR	In	1.5:1	2.0:1 Max.
	Out	1.5:1	2.0:1 Max.
Noise Figure (dB)		2.0	3.0 Max.
Power	Vdc	+12	+12
	mA	280	300 Max.

- 1) Typical values are measured at 25°C, but not guaranteed.
 - 2) Care should always be taken to effectively ground the case of each unit.
 - 3) Housing outlines drawings for reference only.
- * Measured Midband at 8 GHz

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point:	+40 dBm (Typ.)
Second Order Two Tone Intercept Point:	+35 dBm (Typ.)
Third Order Two Tone Intercept Point:	+25 dBm (Min.)

Note: Measured Midband at 8 GHz

Absolute Maximum (No Damage) Ratings

Operating Temperature	-55°C to +90 °C
Storage Temperature	-62°C to +125°C
Case Temperature	+100 °C
DC Voltage	+15 Volts
Continuous RF Input Power	+13 dBm
Short Term RF Input Power	200 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 μsec Max.)

Instructions

Grounding Instructions	Care should be taken to effectively ground each unit.
Revisions	Spectrum Control reserves the right to make revisions to both product and/or the information contained within their datasheets without advanced notice.
Min./Max. Values	Specifications are guaranteed when tested in a 50 Ω (ohm) system.
Typical performance graphs and values are measured at 25°C, but not guaranteed.	

1. HOUSING: 70/30 CN/NI
ELECTRONIC GRADE

