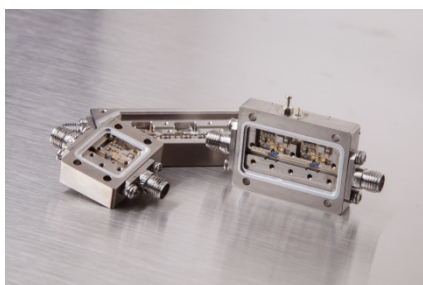


RF/Microwave Amplifier



Features

- High Output Power: +27 dBm
- High Gain: 22 dB
- Hermetic Laser Welded Housing
- Environmental Screening Available

Technical Specifications

Characteristic		TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency		700 to 2700 MHz	700 – 2700 MHz
Gain (dB)		22	20.5 Min.
Power @ 1 dB Comp. (dBm)		+27	+26 Min.
Reverse Isolation (dB)		-45	--
VSWR	In	1.5:1	2.0:1 Max.
	Out	1.5:1	2.0:1 Max.
Noise Figure (dB)		2.5	4.0 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) Package outlines drawings below for reference only.

Mechanical & Electrical

Parameter	Specification
Specification Temperatures (Min/Max)	-55°C to +85°C
Housing Size	1.58" L x 0.82" W x 0.44" H
Housing Drawing	H1L Package
RF Connectors	SMA Female Replaceable Connectors

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point:	+62 dBm (Typ.)
Second Order Two Tone Intercept Point:	+58 dBm (Typ.)
Third Order Two Tone Intercept Point:	+40 dBm (Typ.)

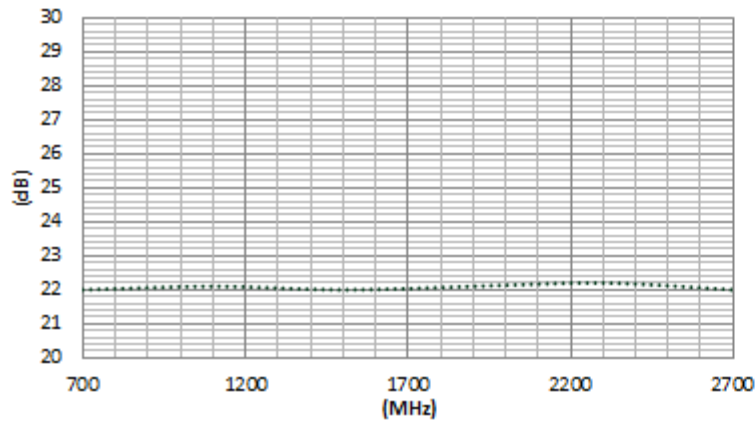
Note: Measured midband

Absolute Maximum (No Damage) Ratings

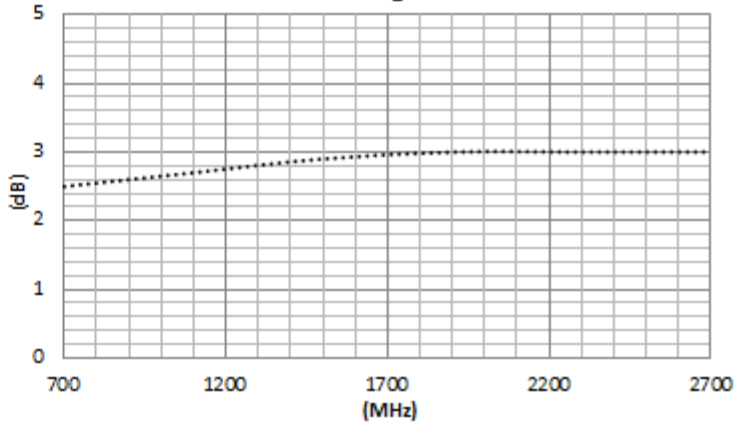
Operating Temperature	-55°C to +100 °C
Storage Temperature	-62°C to +125°C
Case Temperature	+125 °C
DC Voltage	+15 Volts
Continuous RF Input Power	+13 dBm
Short Term RF Input Power	200 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 µsec Max.)

Typical Performance Graphs

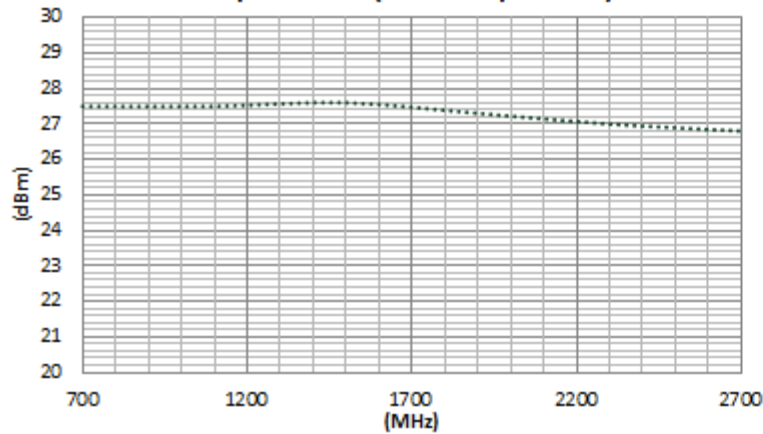
Gain



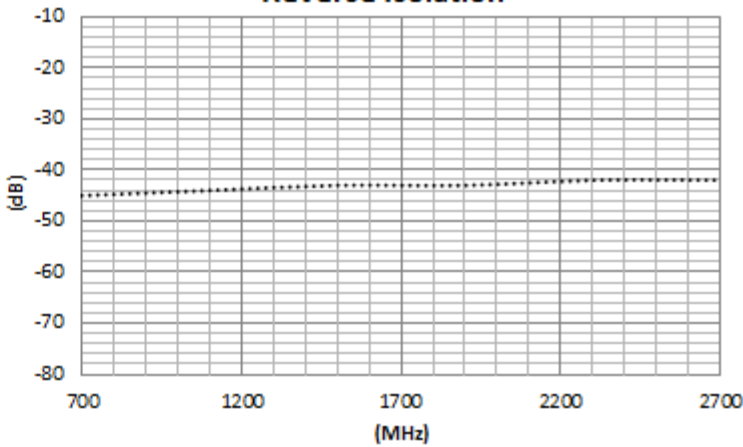
Noise Figure



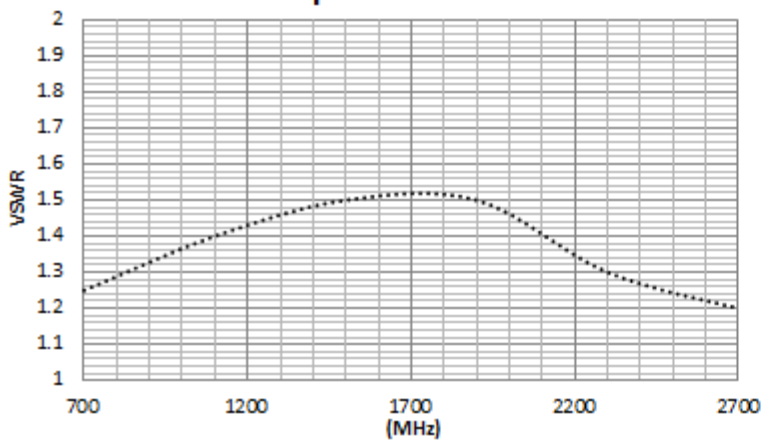
Output Power (1 dB Compression)



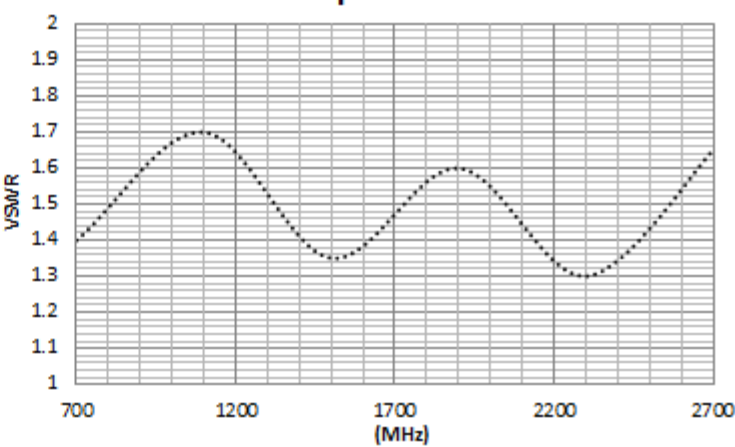
Reverse Isolation



Input VSWR



Output VSWR



Instructions

Grounding Instructions	Care should be taken to effectively ground each unit.
Revisions	API 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.	

HOUSING: 70/30 CN/NI
ELECTRONIC GRADE

