Model # TM9335

Available as:

TM9335, 4 Pin TO-8 Can (T4)
TN9335, 4 Pin Surface Mount (SM3)
BX9335, SMA Connectorized Laser Seal Housing (H1L)

RF/Microwave Amplifier

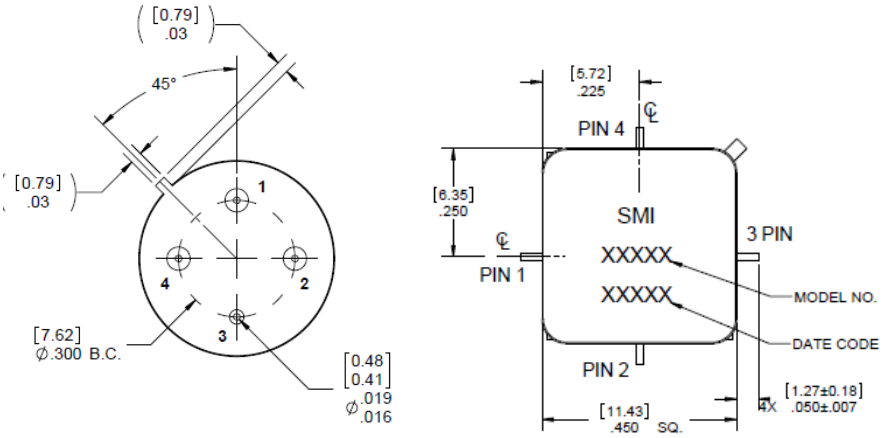
Features

- Low Noise Figure
- High Output Power
- Environmental Screening Available
- No External Circuitry Needed

Technical Specifications

Characteristic		TYPICAL Ta = +25 ºC	MIN/MAX Ta = -55ºC to +85 ºC
Frequency		5 – 1100 MHz	10 – 1000 MHz
Gain (dB)		25	24 Min.
Power @ 1 dB Comp. (dBm)		+5.0	+2.5 Min.
Reverse Isolation (dB)		-37	---
VSWR	In	1.5:1	2.1:1 Max.
	Out	1.5:1	2.0:1 Max.
Noise Figure (dB)		2.5	3.5 Max.
Power	Vdc	+5	+5
	mA	18	23 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.



Typical (Output) Intermodulation Performance at 25 ºC

Second Order Harmonic Intercept Point:	+42 dBm (Typ.)
Second Order Two Tone Intercept Point:	+38 dBm (Typ.)
Third Order Two Tone Intercept Point:	+15 dBm (Typ.)

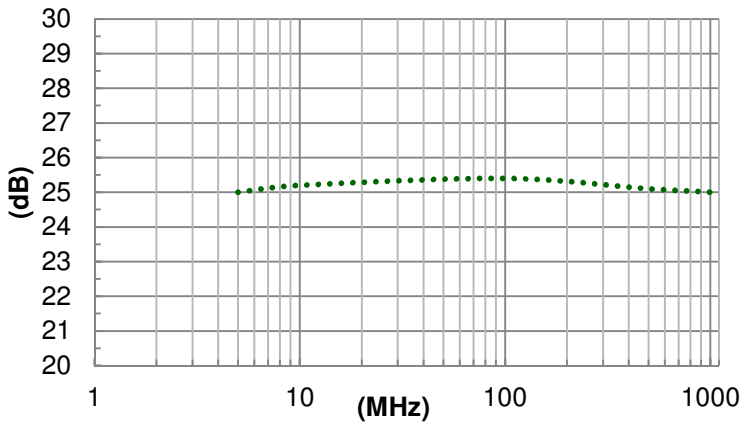
Note: Measured at 500 MHz

Absolute Maximum (No Damage) Ratings

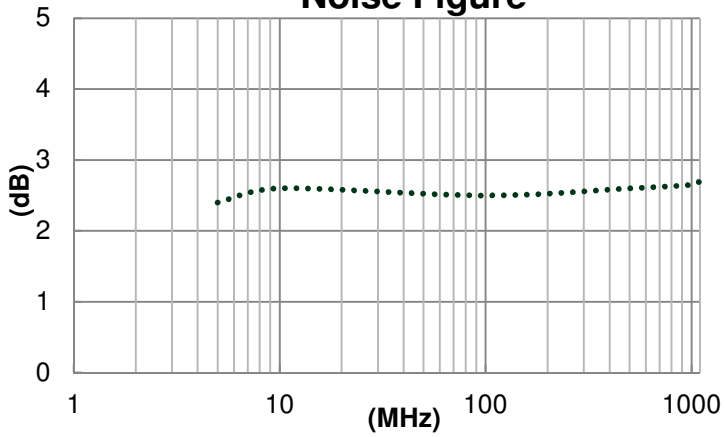
Operating Temperature	-55ºC to +100 ºC
Storage Temperature	-69ºC to +125ºC
Case Temperature	+125 ºC
DC Voltage	+8 Volts
Continuous RF Input Power	+6 dBm
Short Term RF Input Power	50 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 µsec Max.)

Typical Performance Graphs

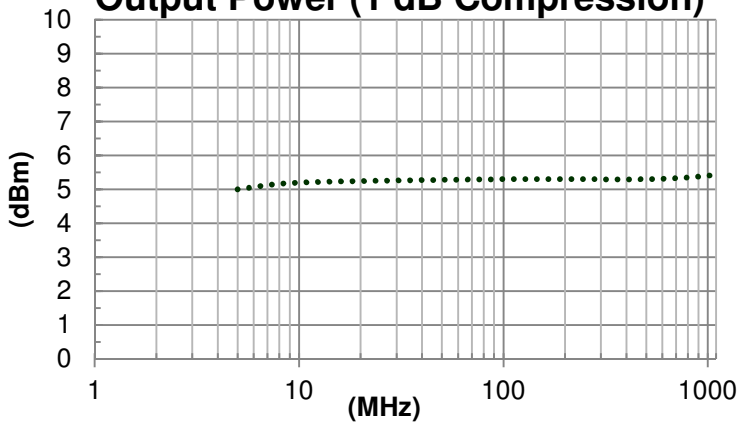
Gain



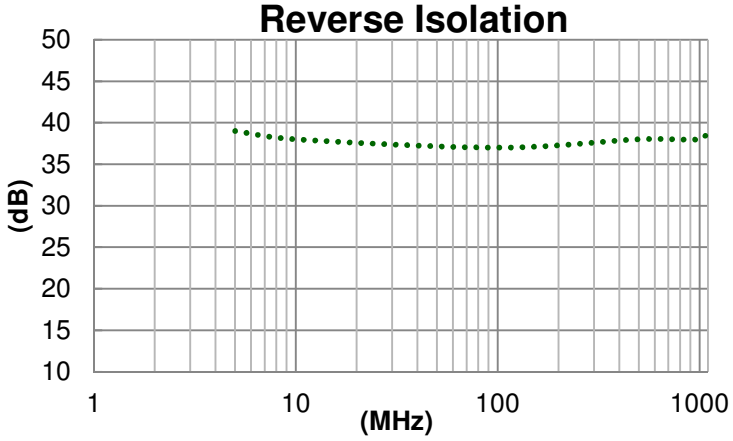
Noise Figure



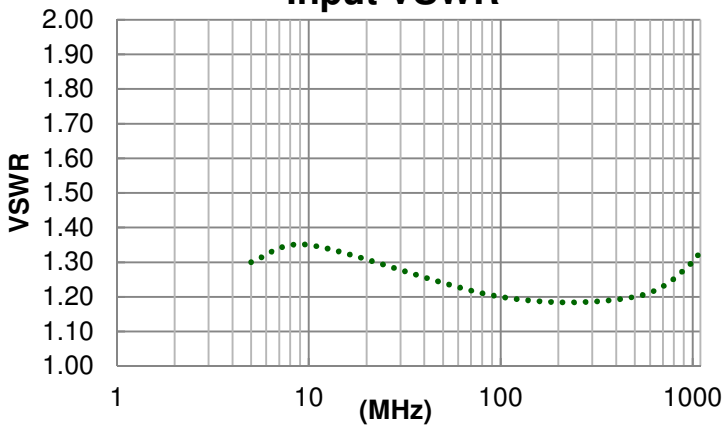
Output Power (1 dB Compression)



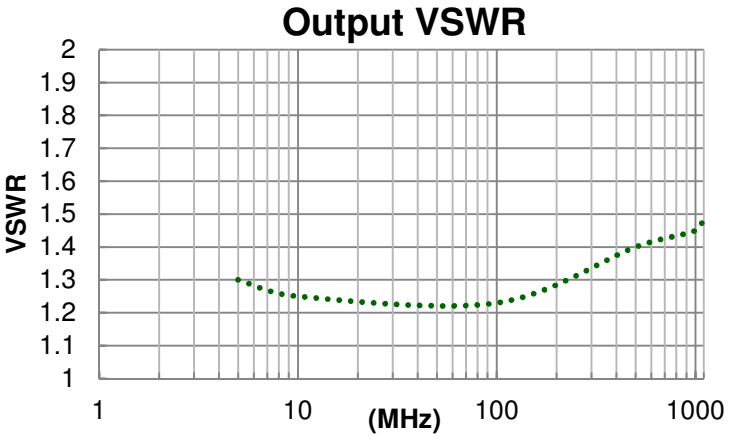
Reverse Isolation



Input VSWR



Output VSWR



Typical Performance Graphs

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.