Model # TM3133

Available as:

TM3133, 4 Pin TO-8 (T4)
TN3133, 4 Pin 0.450” Sq. Surface Mount (SM3)
BX3133, SMA Connectorized Housing (H1L)

RF/Microwave Amplifier

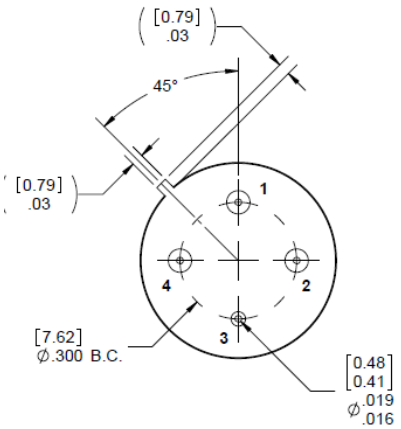
Features

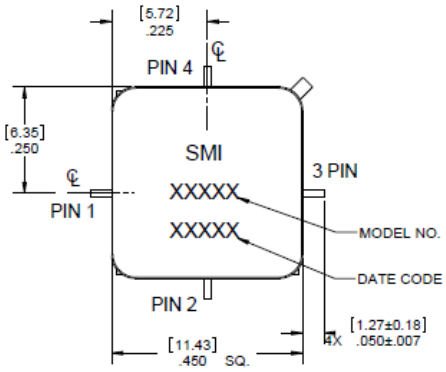
- High P1dB Output: +28.5 dBm
- Wide 30– 3000 MHz Bandwidth
- Environmental MIL Screening Available
- Unconditionally Stable
- RoHS Leadfree “LF” Version Available

Technical Specifications

Characteristic		TYPICAL Ta = +25 ºC	MIN/MAX Ta = -55ºC to +85 ºC
Frequency		30 – 3000 MHz	30 – 3000 MHz
Gain (dB)		13	11.5 Min.
Power @ 1 dB Comp. (dBm)		+28.5	+26 Min.
Reverse Isolation (dB)		-22	---
VSWR	In	1.75:1	2.25:1 Max.
	Out	1.25:1	2.25:1 Max.
Noise Figure (dB)		3.5	5.0 Max.
Power	Vdc	+15	+15
	mA	250	275 Max.

1) Care should always be taken to effectively ground the case of each unit
2) Typical values are measured at 25°C, but not guaranteed.
3) Package drawings below are for reference only.





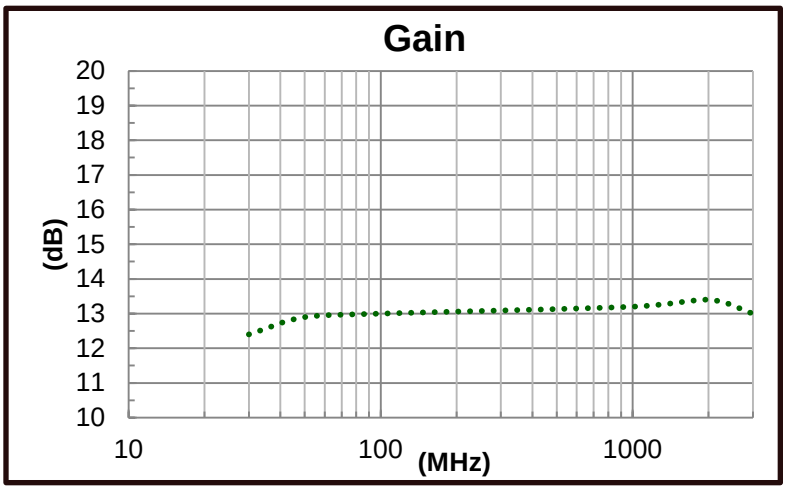
Typical Intermodulation Performance at 25 ºC

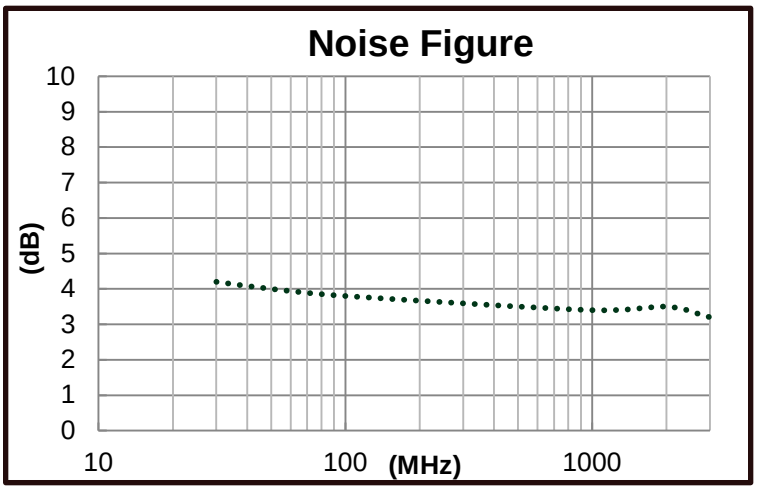
Second Order Harmonic Intercept Point:	+56 dBm (Typ.)
Second Order Two Tone Intercept Point:	+51 dBm (Typ.)
Third Order Two Tone Intercept Point:	+40 dBm (Typ.)

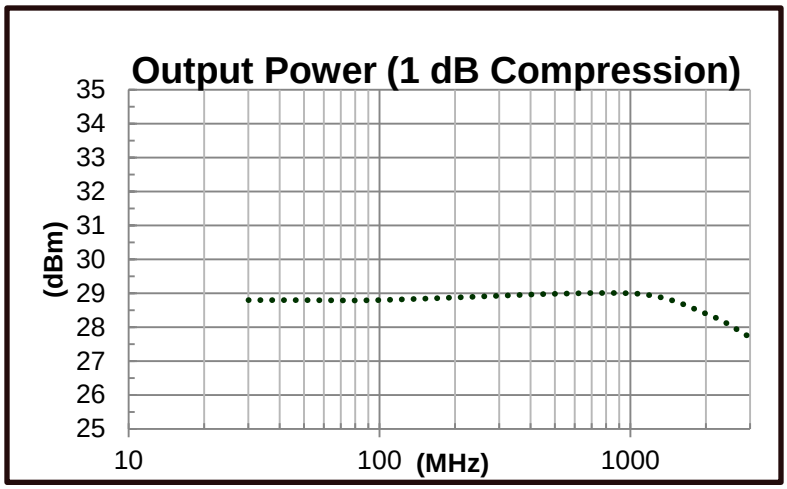
Note: Measured at 1500 MHz at 25C.

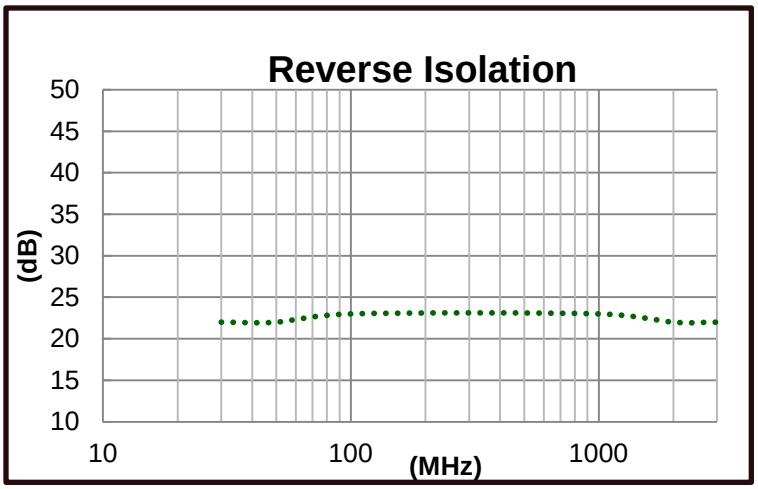
Absolute Maximum (No Damage) Ratings

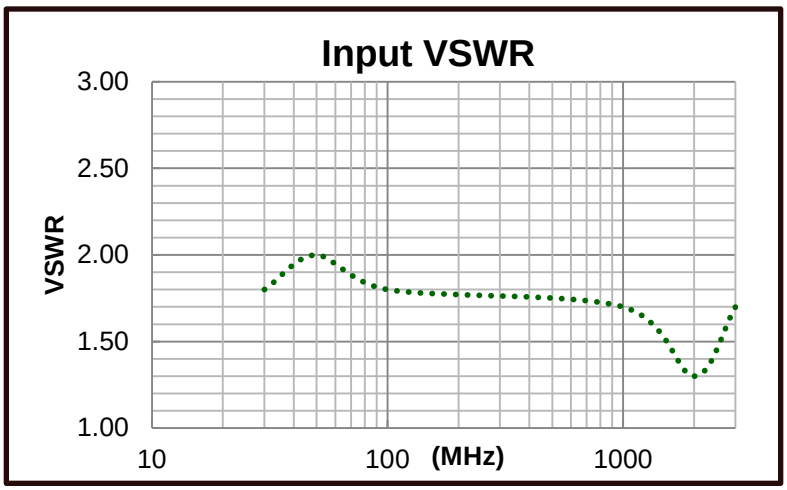
Operating Temperature	-55ºC to +100 ºC
Storage Temperature	-62ºC to +125ºC
Case Temperature	+125 ºC
DC Voltage	+18 Volts
Continuous RF Input Power	+13 dBm

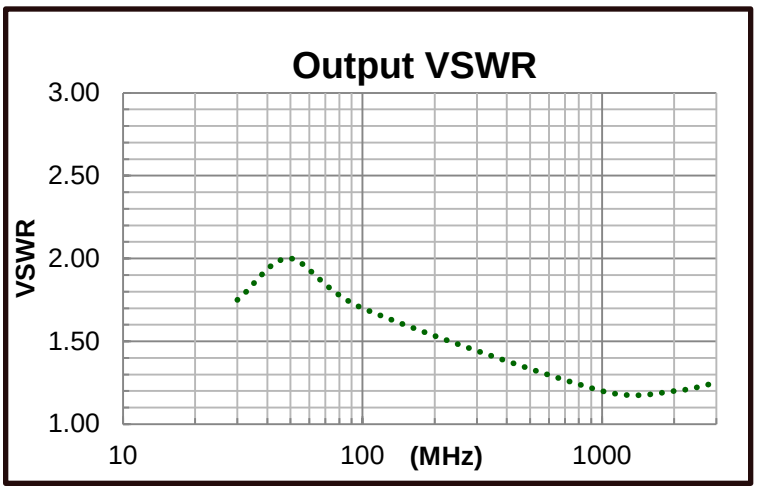












Instructions

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.	

1) Outlines drawings below are for reference only.