#### Available as:

TM3128, 4 Pin TO-8 (T4) TN3128, 4 Pin 0.450" Sq. Surface Mount (SM3) BX3128, SMA Connectorized Housing (H1)





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### Features

- Low Noise Figure: 1.4 dB
- No External Circuitry Needed
- RoHS Compliant Model Available
- Unconditionally Stable

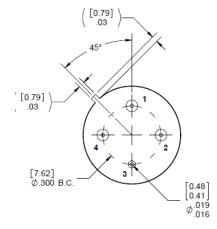
## **Technical Specifications**

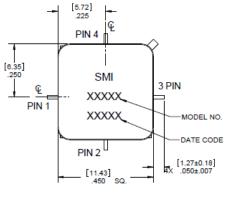
Characteristic	TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency	500 – 2500 MHz	500 – 2500 MHz
Gain (dB)	16.5	15 Min.
Power @ 1 dB Comp. (dBm)	+14.5	+13 Min.
Reverse Isolation (dB)	-20	
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	1.4	2.5 Max.
Power Vdc	+5	+5
mA	35	50 Max.

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 °C

Second Order Harmonic Intercept Point:	+42 dBm (Typ.)
Second Order Two Tone Intercept Point:	+37 dBm (Typ.)
Third Order Two Tone Intercept Point:	+27dBm (Typ.)

#### Note:

Intercept Values Measured at 1500 MHz.

#### Absolute Maximum (<u>No Damage</u>) Ratings

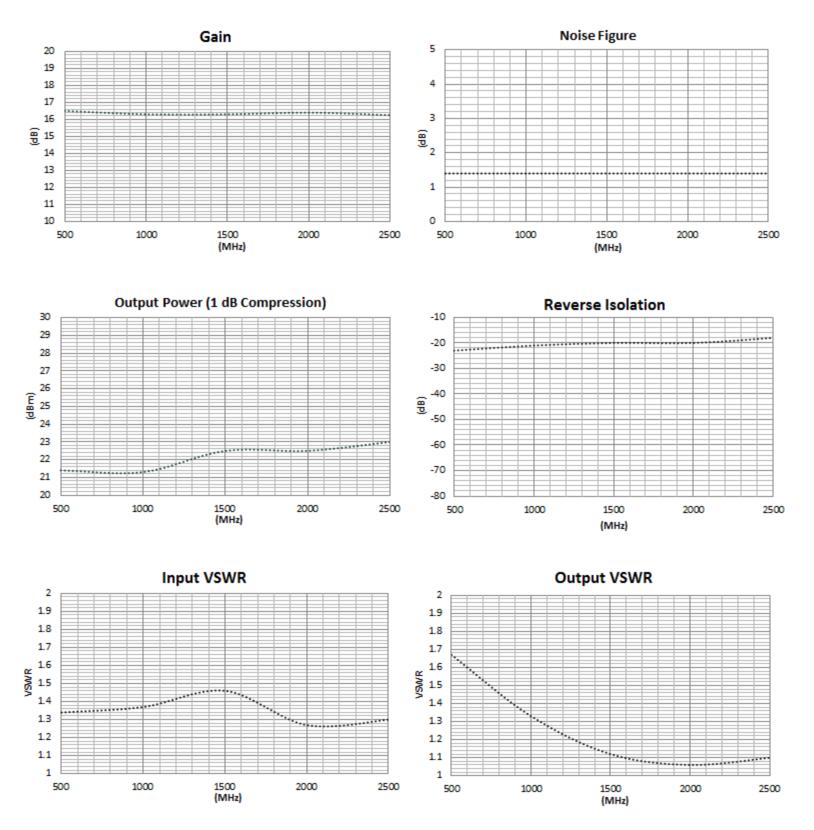
Operating Temperature	-55°C to +100 °C
Storage Temperature	-62°C to +125°C
Case Temperature	+125 ℃
DC Voltage	+8 Volts
Continuous RF Input Power	+13 dBm
Short Term RF Input Power	200 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 µsec Max.)

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# Model #TM3128

## 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 $\Omega$ (ohm) system.	
Typical performance graphs and values are measured at 25°C, but not guaranteed.		

1) Outlines drawings below are for reference only.

NOTES:

- Housing: Aluminum Finish: Nickel
- 1. 2.

