

Available as:



RF/Microwave Amplifier

TM7238, 4 Pin TO-8 (T4) TN7238, 4 Pin Surface Mount (SM3) BX7238, SMA Connectorized Housing (H1)



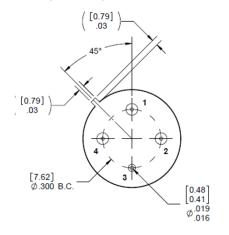
Features

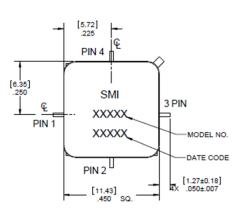
- Low Noise Figure: 2.6 dB
- Wide 5 300 MHz Bandwidth
- Environmental Screening Available
- Unconditionally Stable

Technical Specifications

Characteristic		TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency		5 – 300 MHz	5– 200 MHz
Gain (dB)		32	30 Min.
Power @ 1 dB Comp. (dBm)		+15.5	+14 Min.
Reverse Isolation (dB)		38	
VSWR	ln	1.3:1	1.4:1 Max.
	Out	1.3:1	1.4:1 Max.
Noise Figure (dB)		2.6	3.5 Max.
Power	Vdc	+5	+5
	mA	64	69 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:	+55 dBm (Typ.)
Second Order Two Tone Intercept Point:	+49 dBm (Typ.)
Third Order Two Tone Intercept Point:	+30 dBm (Typ.)

Note: Measured at 100 MHz at 25C.

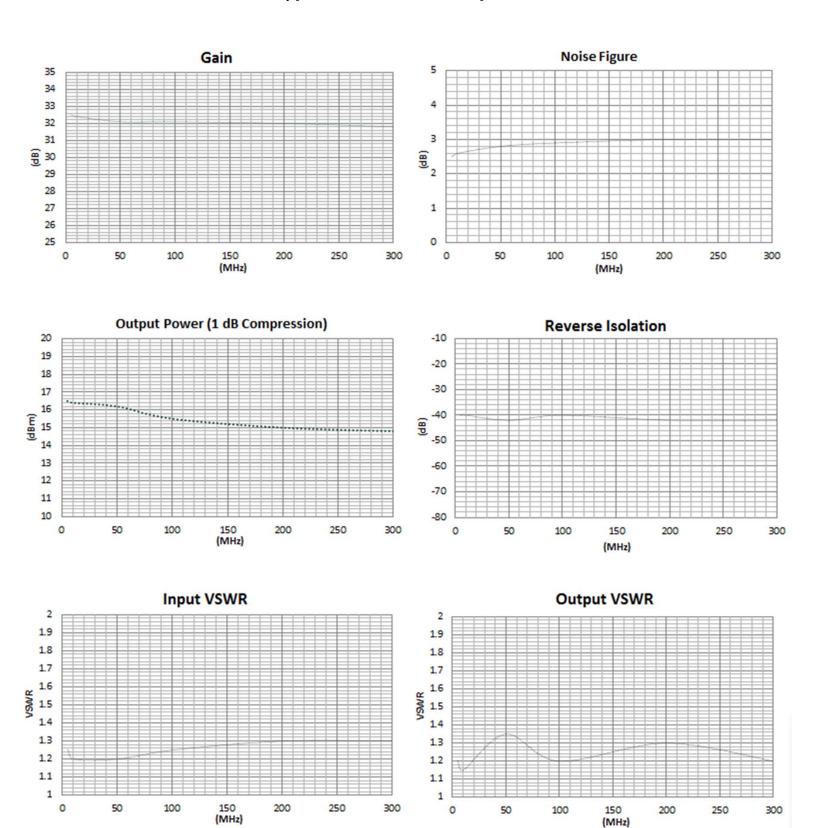
Absolute Maximum (No Damage) Ratings

Operating Temperature	-55°C to +100 °C
Storage Temperature	-62°C to +125°C
Case Temperature	+125 °C
DC Voltage	+8 Volts
Continuous RF Input Power	+10 dBm
Short Term RF Input Power	50 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 µsec Max.)

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Model # TM7238

Typical Performance Graphs

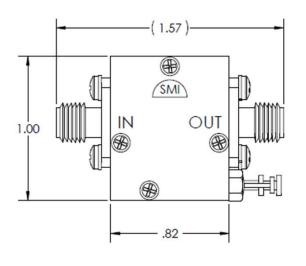


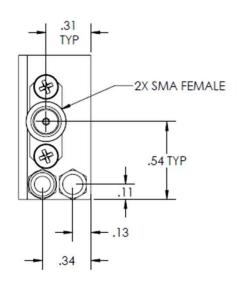
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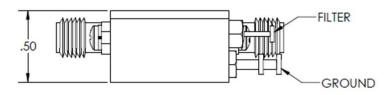
Instructions

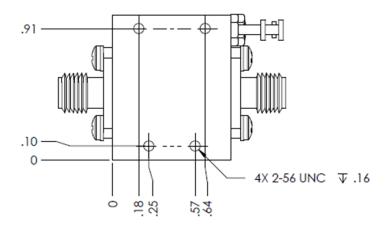
Grounding Instructions	Care should be taken to effectively ground each unit.	
Revisions	API reserves the right to make revisions to both product and/or the information contained within their datasheets without advanced notice.	
Min./Max. Values	Specifications are guaranteed when tested in a 50 Ω (ohm)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

1) Outlines drawings below are for reference only.









Rev Date: 2/25/2015