



Available as:



Features

• Low Noise Figure: 3.3 dB

• Wide 1 - 250 MHz Bandwidth

• Environmental Screening Available

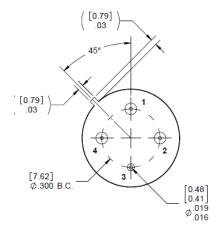
• Unconditionally Stable

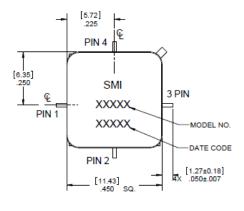
TM6108, 4 Pin TO-8 (T4) TN6108, 4 Pin 0.450" Sq. Surface Mount (SM3) BX6108, SMA Connectorized Housing (H1)

Technical Specifications

Characteristic		TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency		1 – 250 MHz	1 – 150 MHz
Gain (dB)		15	14 Min.
Power @ 1 dB Comp. (dBm)*		+25	+23.5 Min.
Reverse Isolation (dB)		-28	
VSWR	In	1.75:1	2.0:1 Max.
	Out	1.75:1	2.0:1 Max.
Noise Figure (dB)**		3.3	4.5 Max.
Power*	Vdc	+15	+15
	mA	135	140 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.
- *Power Output @1 dB Compression: 1 dB lower below 2 MHz.
- **Noise Figure: 10-150 MHz.





Typical Intermodulation

Performance at 25 0C

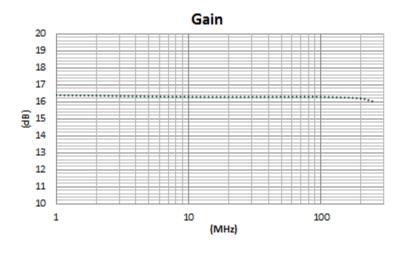
Second Order Harmonic Intercept Point:	+66 dBm (Typ.)
Second Order Two Tone	+60 dBm
Intercept Point:	(Typ.)
Third Order Two Tone	+43 dBm
Intercept Point:	(Typ.)

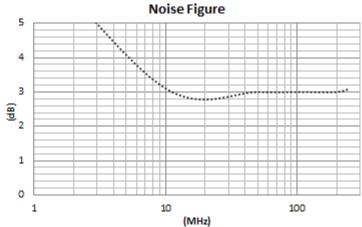
Note: Measured at 50 MHz at 25C.

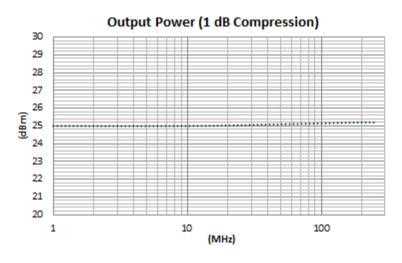
Absolute Maximum (No Damage) Ratings

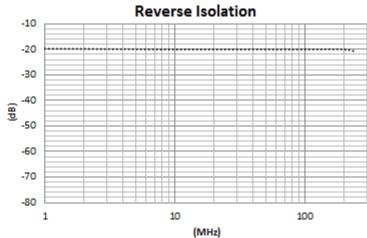
Operating Temperature	-55°C to +100 °C
Storage Temperature	-62°C to +125°C
Case Temperature	+125 °C
DC Voltage	+18 Volts
Continuous RF Input Power	+17 dBm
Short Term RF Input Power	100 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 μsec Max.)

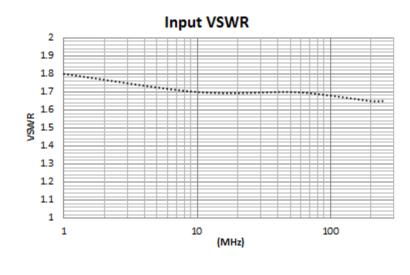
Model # TM6108

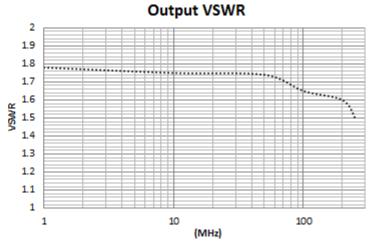














Instructions

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

NOTES:

- HOUSING: ALUMINUM FINISH: NICKEL

