

Available as:

TM6236, 4 Pin TO-8 (T4)
TN6236, 4 Pin 0.450" Sq. Surface Mount (SM3)
BX6236, SMA Connectorized Laser Seal Housing (H1L)
Preliminary

RF/Microwave Amplifier



Features

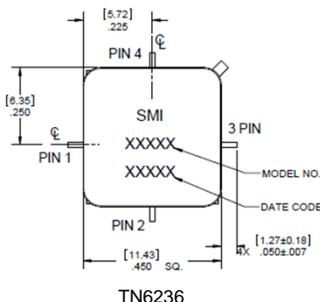
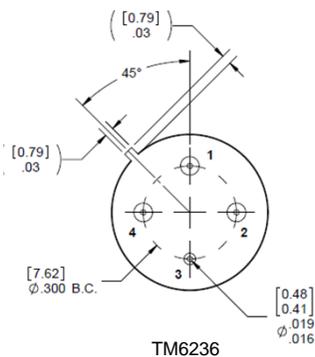
- High Gain: 14 dB Typical
- Wide 2800 – 3600 MHz Bandwidth
- Environmental Screening Available

Technical Specifications

Characteristic	TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency	2800 – 3600 MHz	2800 – 3600 MHz
Gain (dB)	14	13 Min.
Power @ 1 dB Comp. (dBm)	+25	+24 Min.
Reverse Isolation (dB)	-20	--
VSWR	In	1.5:1
	Out	1.5:1
Noise Figure (dB)	2.0	2.5 Max.
Power	Vdc	+15
	mA	170

*Typical values are measured at 25°C, but not guaranteed.

Note: Care should always be taken to effectively ground the case of each unit.
(Packages below are for reference only)



Typical* Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point:	+52 dBm (Typ.)
Second Order Two Tone Intercept Point:	+48 dBm (Typ.)
Third Order Two Tone Intercept Point:	+40 dBm (Typ.)

***Note:** Measured at Midband.

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	+13 dBm
Short Term RF Input Power	200 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 µsec Max.)

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.	