Model # TM9547

Available as:
TM9547, 4 Pin 0.500" TO-8 Can (T4)
TN9547, 4 Pin 0.450" Sq. Surface Mount (SM3)
BX9547, SMA Connectorized Housing (H1L)

RF/Microwave Amplifier

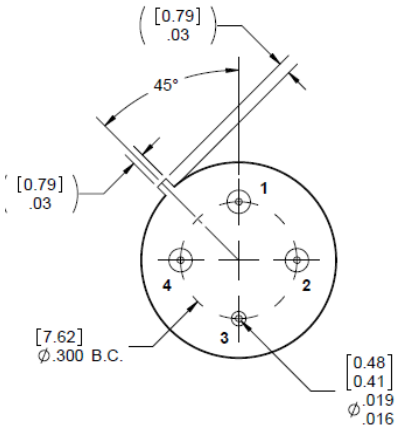
Features

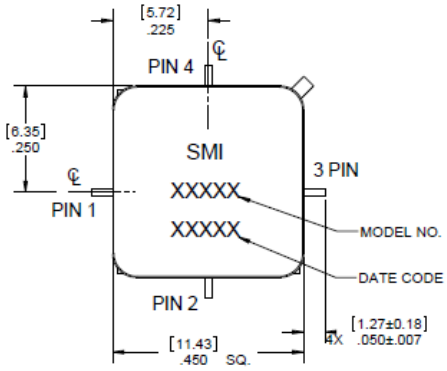
- **Low Noise Figure : 3.5 dB**
- **No External Circuitry Needed**
- **Unconditionally Stable**
- **RoHS Design Compliant Option TM9547LF**

Technical Specifications

Characteristic		TYPICAL Ta = +25 ºC	MIN/MAX Ta = -55ºC to +85 ºC
Frequency		10 – 3600 MHz	10 – 3500 MHz
Gain (dB)		11	9.5 Min.
Power @ 1 dB Comp. (dBm)		+20	+18 Min.
Reverse Isolation (dB)		-30	--
VSWR	In	1.6:1	2.0:1 Max.
	Out	1.6:1	2.0:1 Max.
Noise Figure (dB) **(100-3500 MHz)**		3.5	5.0 Max.
Power	Vdc	+15	+15
	mA	75	100 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:	+54 dBm (Typ.)
Second Order Two Tone Intercept Point:	+48 dBm (Typ.)
Third Order Two Tone Intercept Point:	+33 dBm (Typ.)

Note:
Intercept Values Measured Midband

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	+23 dBm
Short Term RF Input Power	200 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 µsec Max.)

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.