

Available as:

TM6270, 4 Pin TO-8 (T4)
 TN6270, 4 Pin 0.450" Sq. Surface Mount (SM3)
 BX6270, SMA Connectorized Housing (H1)

RF/Microwave Amplifier



Features

- Low Noise Figure: 1.5 dB
- Environmental Screening Available
- Unconditionally Stable
- No External Circuitry Needed

Technical Specifications

Characteristic		TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency		1200 – 1700 MHz	1200 – 1700 MHz
Gain (dB)		16	15 Min.
Power @ 1 dB Comp. (dBm)		+13	+11 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)		1.5	2.5 Max.
Power	Vdc	+15	+15
	mA	35	45 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.

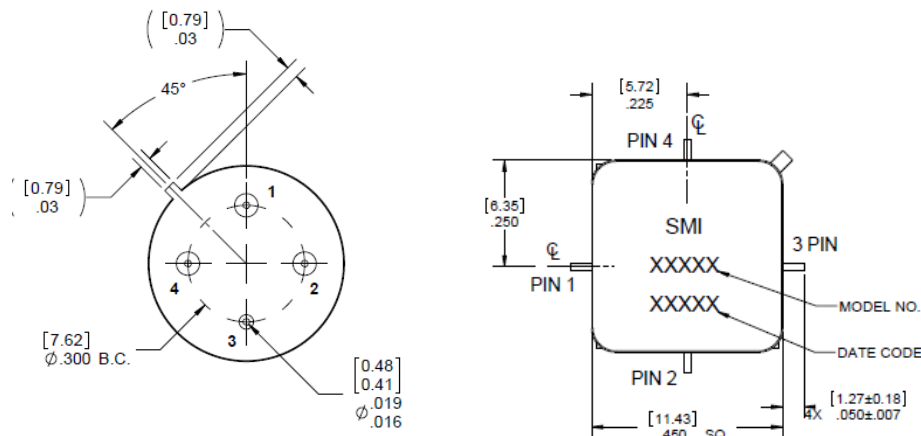
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point:	+40 dBm (Typ.)
Second Order Two Tone Intercept Point:	+36 dBm (Typ.)
Third Order Two Tone Intercept Point:	+27 dBm (Typ.)

Note: Measured at 1500 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	+17 Volts
Continuous RF Input Power	+13 dBm
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.

NOTES:

1. HOUSING: ALUMINUM
2. FINISH: NICKEL

