

Available as:

TM6526, 4 Pin TO-8 (T4)  
 TN6526, 4 Pin 0.450" Sq. Surface Mount (SM3)  
 BX6526, SMA Connectorized Housing (H1)

## RF/Microwave Amplifier



### Features

- Low +5 Volt Supply
- Environmental Screening Available
- No Additional Circuitry Needed
- RoHS Compliant
- Modifications offered without NRE

### Technical Specifications

Characteristic		TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency		10 – 1000 MHz	10 – 1000 MHz
Gain (dB)		27	26 Min.
Power @ 1 dB Comp. (dBm)		11.5	+9.5 Min.
Reverse Isolation (dB)		-37	---
VSWR	In	1.5:1	2.0:1 Max.
	Out	1.5:1	2.0:1 Max.
Noise Figure (dB)		2.5	3.5 Max.
Power	Vdc	+5	+5
	mA	90	95 Max.

- 1) Typical values are measured at 25°C, but not guaranteed.
- 2) Care should always be taken to effectively ground the case of each unit.
- 3) Package outlines drawings below for reference only.

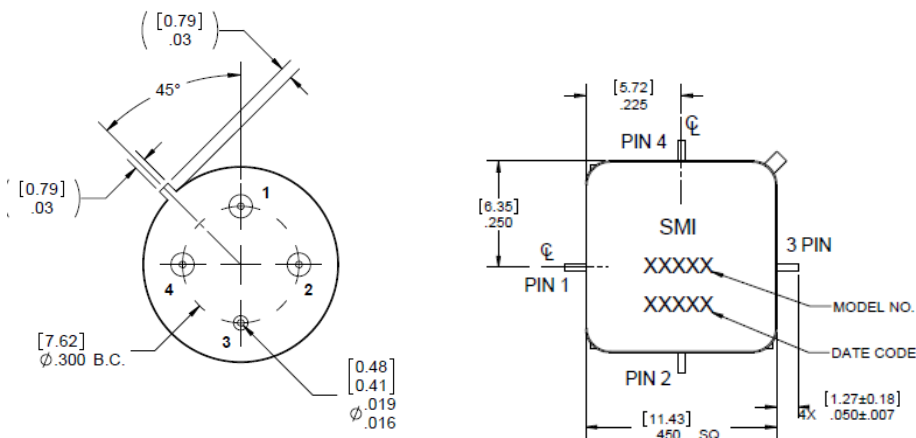
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point:	+47 dBm (Typ.)
Second Order Two Tone Intercept Point:	+42 dBm (Typ.)
Third Order Two Tone Intercept Point:	+34 dBm (Typ.)

**Note:** Measured at 1000 MHz

### 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	+13 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.	

## Outline Drawing

(for reference only)

