

**Available as:**

TR7069, 4 Pin TO-8B Can (T8)  
RN7069, 4 Pin 0.525" Sq. Surface Mount (SM19)  
BR7069, SMA Connectorized Housing (H2)



# RF/Microwave Amplifier

## Features



- **Wide Bandwidth: 50-1000 MHz**
- **No External Circuitry Needed**
- **RoHS Compliant Model Available**
- **Unconditionally Stable**

## Technical Specifications

Characteristic		TYPICAL Ta = +25°C	MIN/MAX Ta = -55°C to +85°C
Frequency		50 – 1000 MHz	50 – 1000 MHz
Gain (dB)		18.5	17 Min.
Power @ 1 dB Comp. (dBm)		+28.5	+26 Min.
Reverse Isolation (dB)		40	---
VSWR	In	1.4:1	2.0:1 Max.
	Out	1.4:1	2.0:1 Max.
Noise Figure (dB) (200-2500 MHz)		3.5	4.5 Max.
Power	Vdc	+15	+15
	mA	280	295 Max.

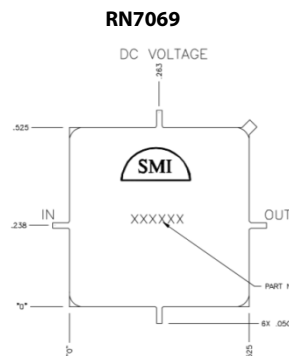
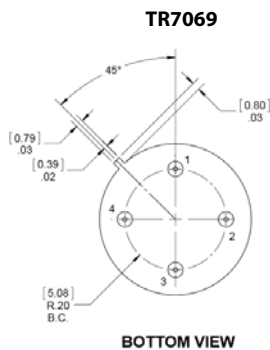
## Typical Intermodulation\* Performance at 25°C

Second Order Harmonic Intercept Point:	+65 dBm (Typ.)
Second Order Two Tone Intercept Point:	+62 dBm (Typ.)
Third Order Two Tone Intercept Point:	+42 dBm (Typ.)

\*Note: Measured at the Midband Point .

## 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	+18 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.	

## Typical Performance Graphs

**Instructions**

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