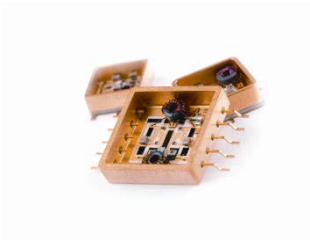
Model # WN6889

Available as:

WN6889, 4 Pin 0.525” Sq. Surface Mount (SM19)
BR6889, SMA Connectorized Housing (H2L)

RF/Microwave Amplifier



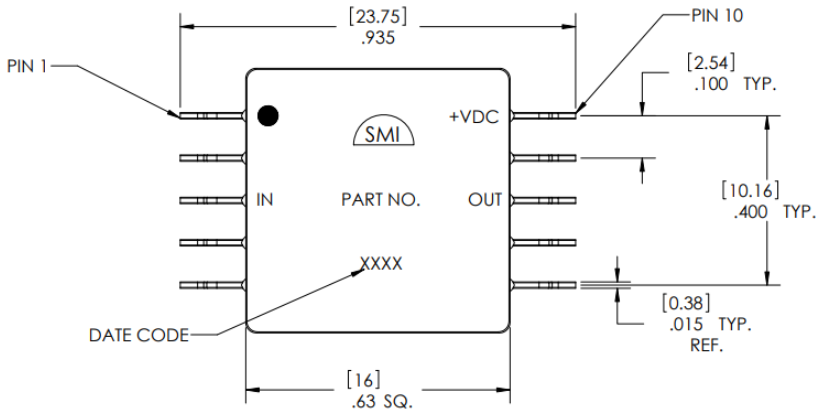
Features

- High P1dB Output: +27 dBm
- Low Noise Figure: 3.5 dB
- Low Phase Noise Performance
- Environmental MIL Screening Available
- Unconditionally Stable
- RoHS Leadfree “LF” Version Available

Technical Specifications

Characteristic		TYPICAL Ta = +25 ºC	MIN/MAX Ta = -55ºC to +85 ºC
Frequency		10 – 500 MHz	10 – 500 MHz
Gain (dB)		25	23 Min.
Power @ 1 dB Comp. (dBm)*		+27	+25.5 Min.
Reverse Isolation (dB)		-35	---
VSWR	In	1.5:1	2.0:1 Max.
	Out**	1.5:1	2.0:1 Max.
Noise Figure (dB)		3.5	4.5 Max.
Power	Vdc	+15	+15
	mA	280	300 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:	+44 dBm (Typ.)
Second Order Two Tone Intercept Point:	+38 dBm (Typ.)
Third Order Two Tone Intercept Point:	+32 dBm (Typ.)

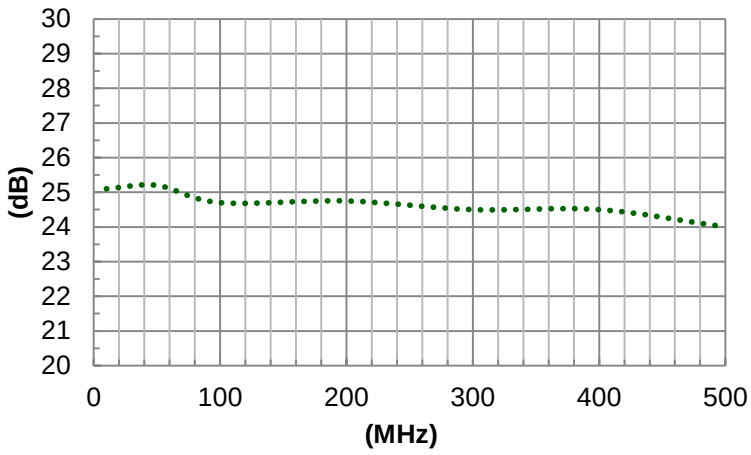
Note: Measured at 250 MHz at 25C.

Absolute Maximum (No Damage) Ratings

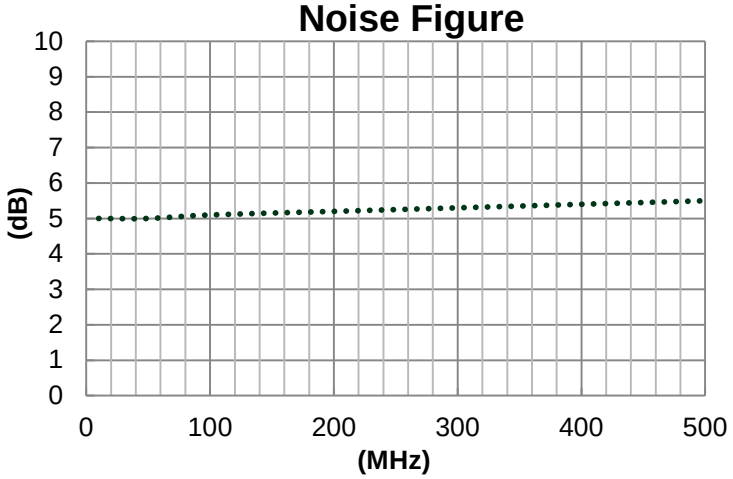
Operating Temperature	-55ºC to +100 ºC
Storage Temperature	-62ºC to +125ºC
Case Temperature	+125 ºC
DC Voltage	+17 Volts
Continuous RF Input Power	+13 dBm

Typical Performance

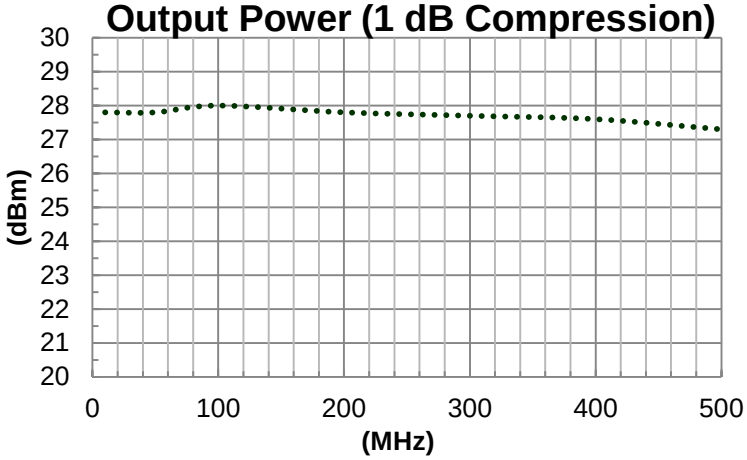
Gain



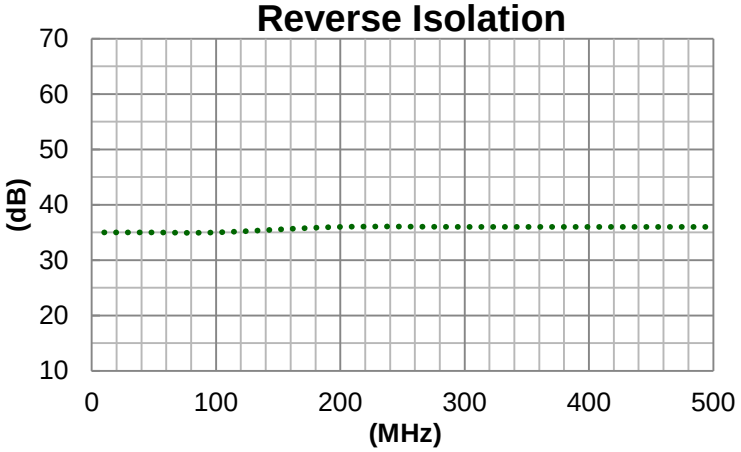
Noise Figure



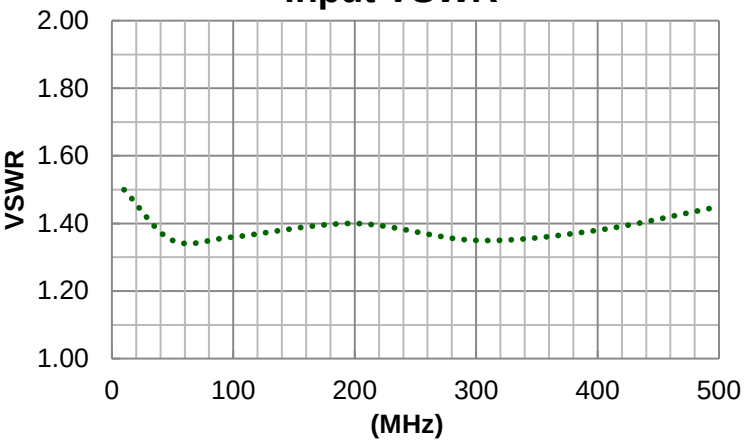
Output Power (1 dB Compression)



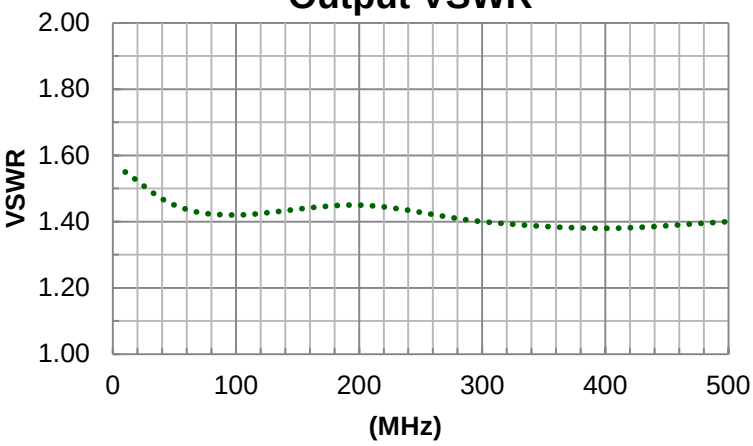
Reverse Isolation



Input VSWR



Output VSWR



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.

1. HOUSING: 70/30 CN/NI
ELECTRONIC GRADE