

Features: (Typical Values)

- Noise Figure2.7 dB
- Output Power @ P1dB+20 dBm
- Third Order IP3+35 dBm
- Gain.....+18.5 dB
- No external components required
- Available with internal limiting diode for maximum RF input = +30 dBm

Maximum Ratings (No Damage)

- Storage Temperature-62°C to +125°C
- DC Voltage +15.5 Volts
- RF Input Power+15.0 dBm
- Case Temperature +125°C

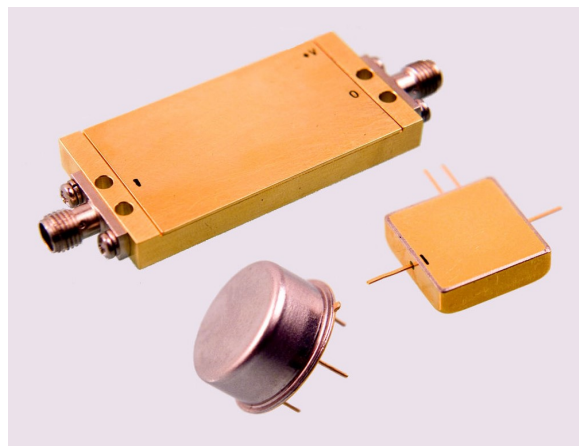
Packages Options:

- SMA-F CONNECTORIZED
- TO-8
- PCB

DC Supply Voltage options:

+5V/+8V/+12V/+15V

**5 - 750 MHz
Low Noise Figure Amplifier**

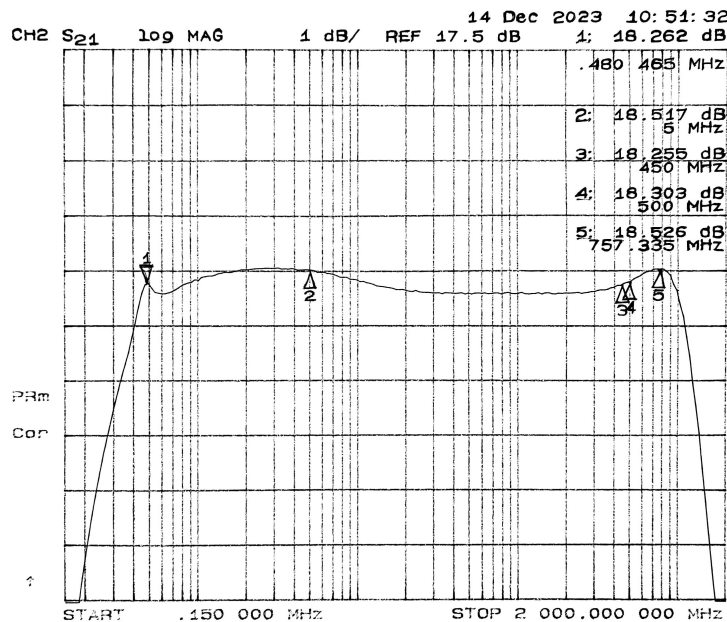


Specifications @ T_{CASE} = 25°C, V_{CC} = +15V, 50Ω systems unless otherwise noted.

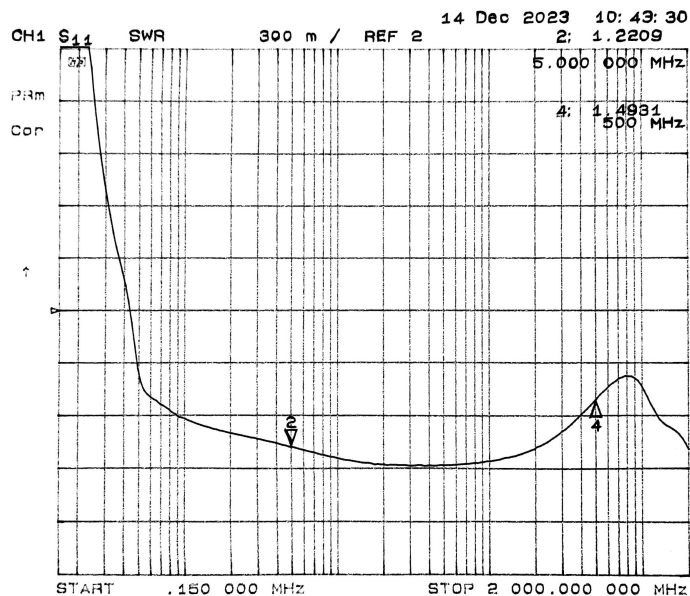
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		5	750	MHz
Gain	18.5	17.5		dB
Gain Flatness	±0.3		±0.5	dB
Pout @ 1dB Compression	+20	+19		dBm
Noise Figure	2.7		3.5	dB
Output IP3 @ Pout = +5dBm (two tone)	+35	+33		dBm
VSWR In	1.4 : 1		1.8 : 1	Ratio
VSWR Out	1.7 : 1		1.8 : 1	Ratio
Supply Current @ +15V	85		100	mA

Min. and max. values are from -40°C to +85°C.

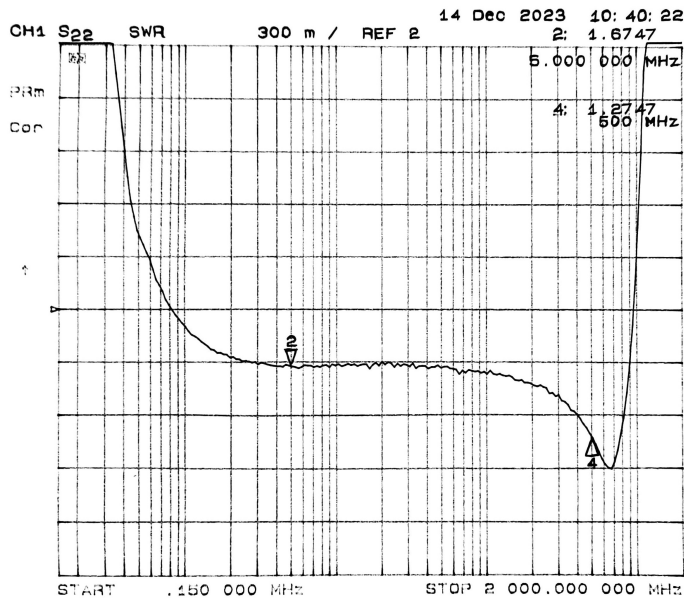
TYPICAL GAIN, INPUT VSWR, AND OUTPUT VSWR CURVES @ 25°C



GAIN

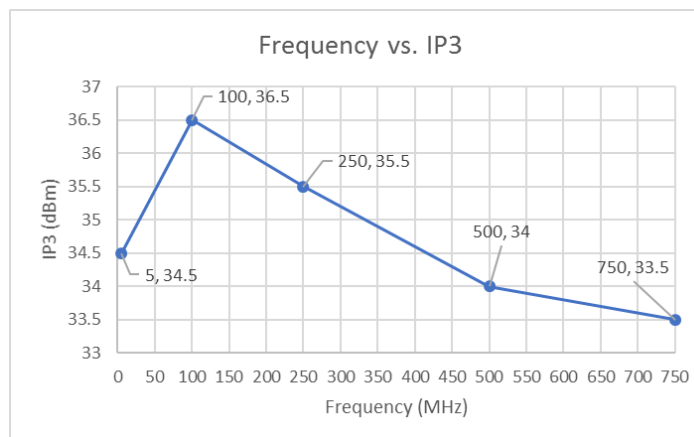
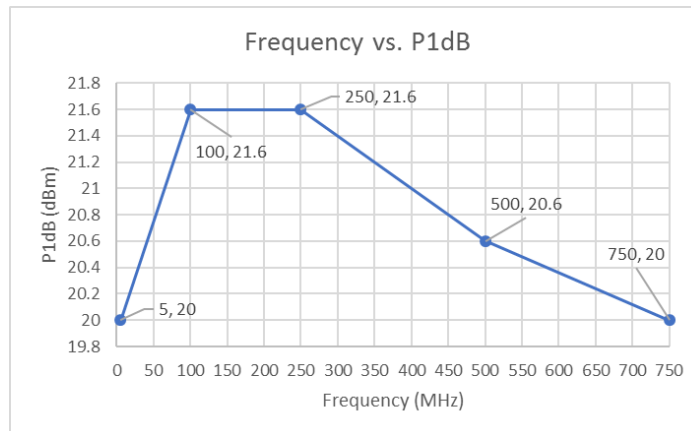
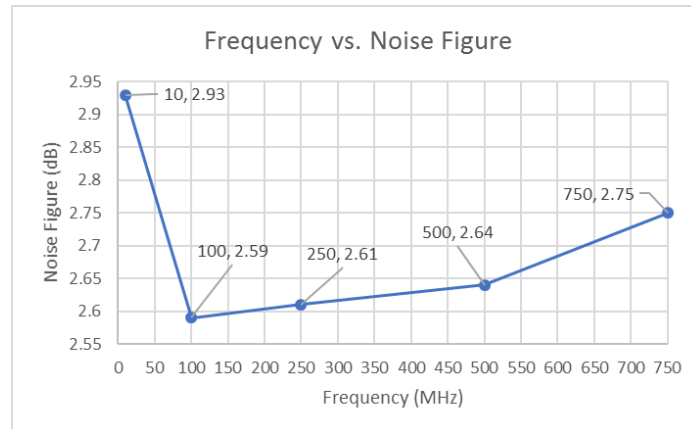


VSWR IN

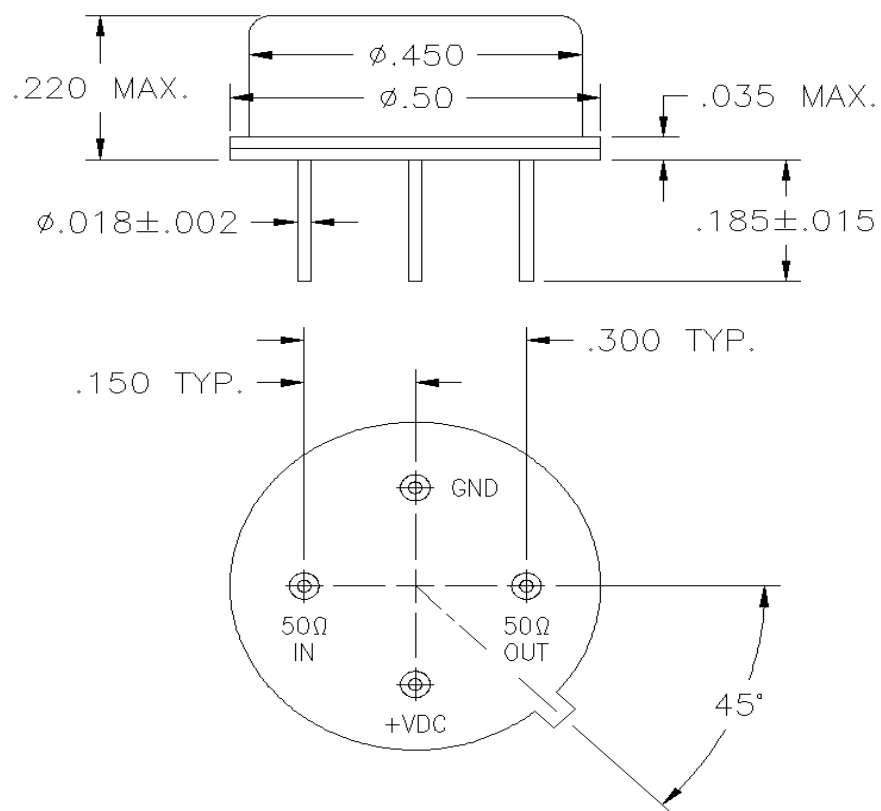


VSWR OUT

TYPICAL NOISE FIGURE, P1dB, AND IP3 CURVES @ 25°C

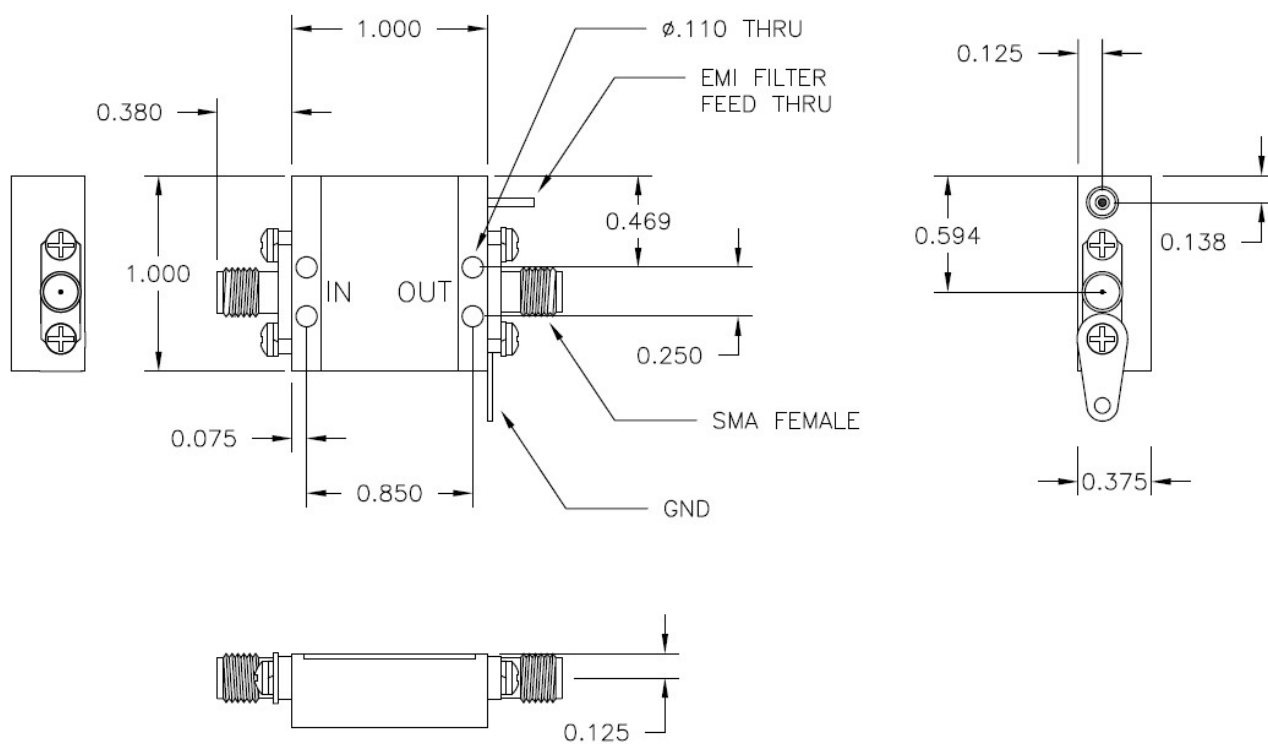


TO-8 PACKAGE



SMA-F CONNECTORIZED PACKAGE

OUTLINE



FUNCTIONAL BLOCK DIAGRAM

