

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

TN9756 / SN9756*

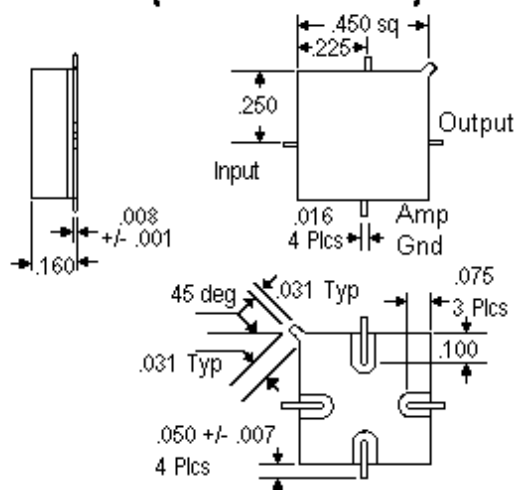
* Part number for additional environmental screening.

Performance Data

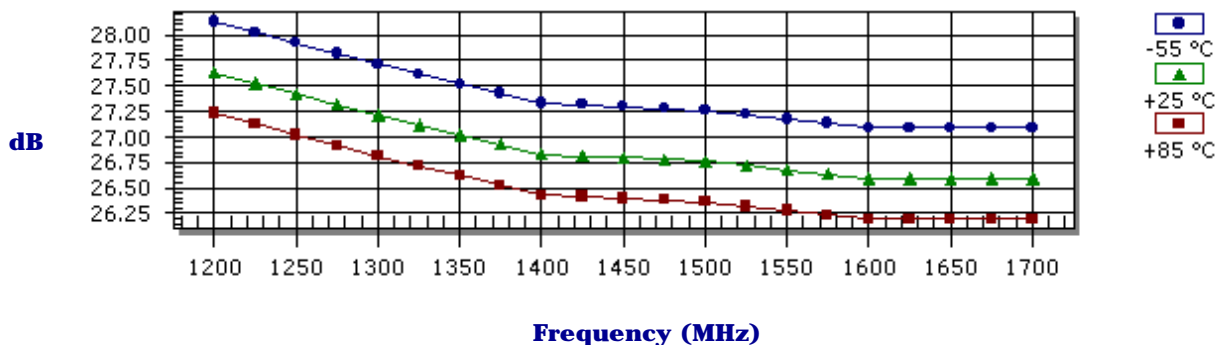
Frequency	1200.0 - 1700.0 MHz
Gain	27.0 dB Typical 25.0 dB Min
Noise Figure	1.0 dB Typical 1.8 dB Max
P _{1dB}	15.0 dBm Typical 14.0 dBm Min
3 rd Order Intercept	26.0 dBm Typical
2 nd Order Intercept	40.0 dBm Typical
VSWR	1.8/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-38.0 dB Typical -36.0 dB Min
Power Supply	5.0 Volts 60.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

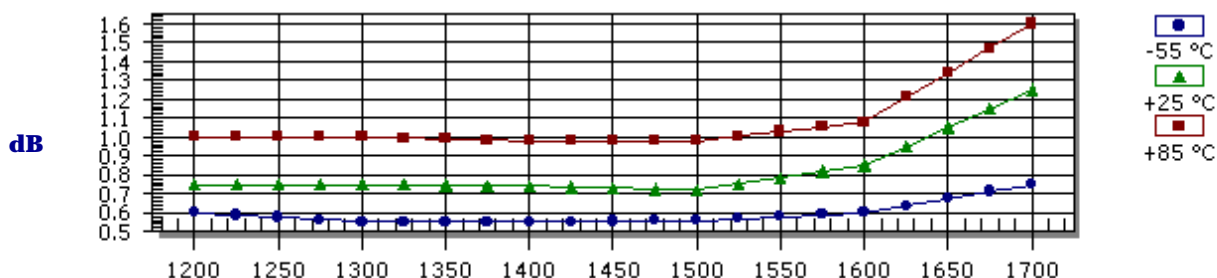
SM-3 (Surface Mount)



Gain



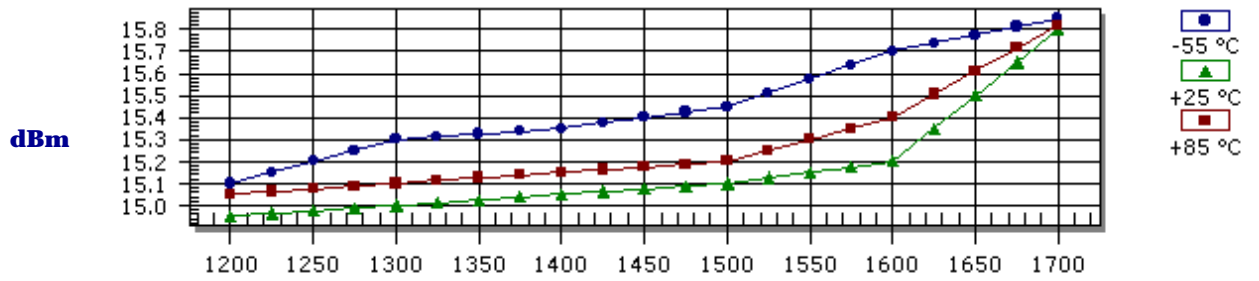
Noise Figure



- Products
- Amplifiers
- VCOs
- Limiting Amplifiers
- Switches
- Linearizers
- Limiters
- Analog Attenuators
- Digital Attenuators
- Detectors

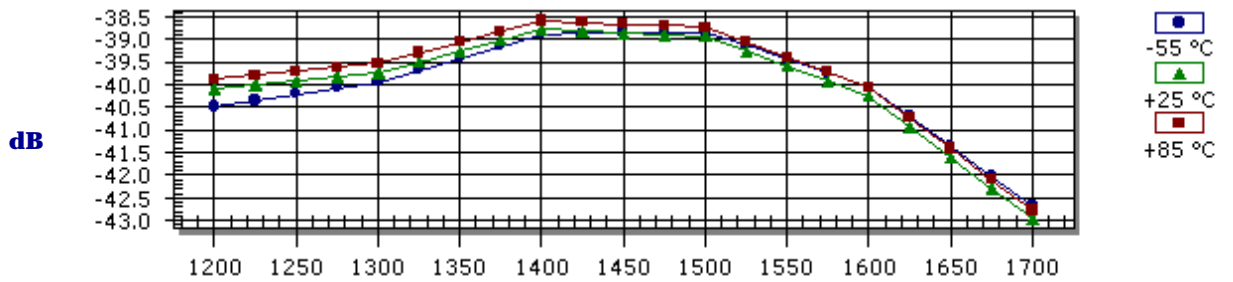
Frequency (MHz)

P_{1dB} Compression Point



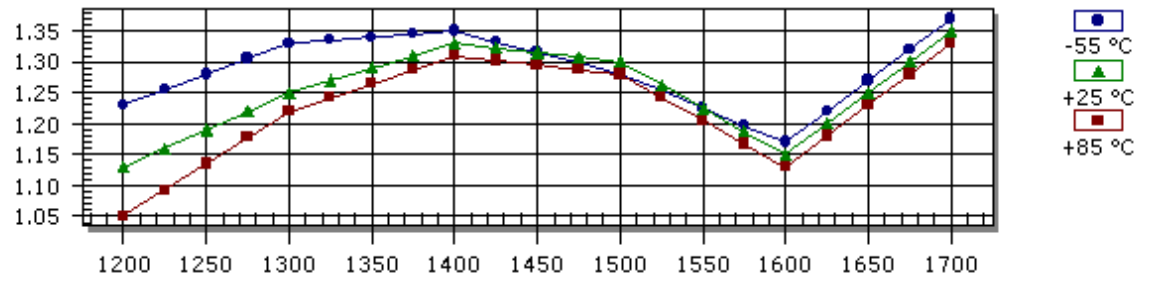
Frequency (MHz)

Reverse Isolation



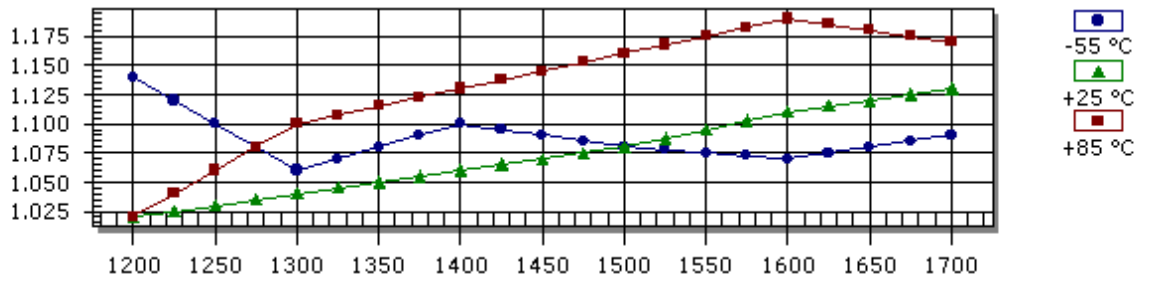
Frequency (MHz)

Input VSWR



Frequency (MHz)

Output VSWR



Frequency (MHz)

S-Parameters

Frequency	S11 Mag	S11 Ang	S21 Mag	S21 Ang	S12 Mag	S12 Ang	S22 Mag	S22 Ang
1200.0	0.060	121.00	24.080	-157.00	0.010	116.00	0.010	-42.00
1300.0	0.110	166.00	22.940	176.00	0.010	101.00	0.020	-99.00
1400.0	0.140	163.00	21.960	152.00	0.011	82.00	0.030	-130.00
1500.0	0.130	152.00	21.770	126.00	0.011	53.00	0.040	-153.00
1600.0	0.070	108.00	21.350	99.00	0.010	39.00	0.050	-170.00
1700.0	0.150	-25.00	21.350	69.00	0.007	10.00	0.060	170.00

Absolute Maximum Conditions

Maximum Operating Temperature	-55.0 - 100.0 °C	Maximum Storage Temperature	-62.0 - 125.0 °C
Maximum Case Temperature	125.0 °C	Maximum Supply Voltage	8.0 Volts
Continuous RF Input Power	13.0 dBm	Short Term RF Input Power (1 minute max)	50.0 mW
Maximum Peak Power (3 µsec max)	0.5 W		

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