

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

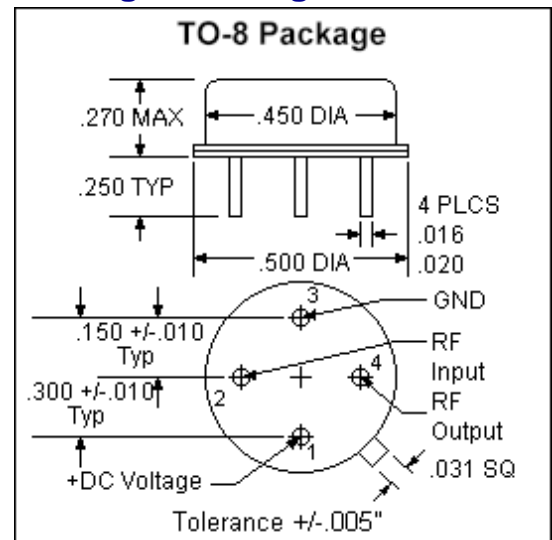
TM5175 / SM5175*

* Part number for additional environmental screening.

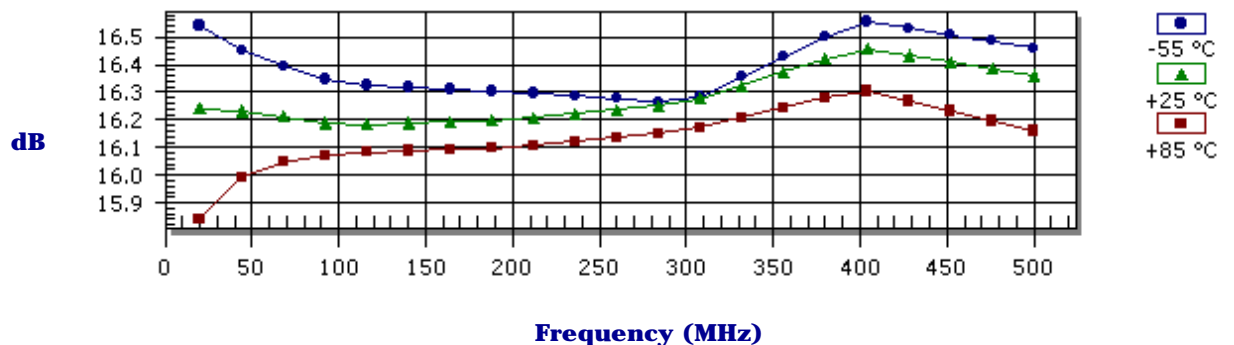
Performance Data

Frequency	20.0 - 500.0 MHz
Gain	16.3 dB Typical 15.5 dB Min
Noise Figure	3.0 dB Typical 3.8 dB Max
P _{1dB}	18.0 dBm Typical 16.5 dBm Min
3 rd Order Intercept	32.0 dBm Typical
2 nd Order Intercept	41.0 dBm Typical
VSWR	1.8/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-20.0 dB Typical -18.0 dB Min
Power Supply	15.0 Volts 45.0 mA
Operating Temperature	-55.0 - 85.0 °C

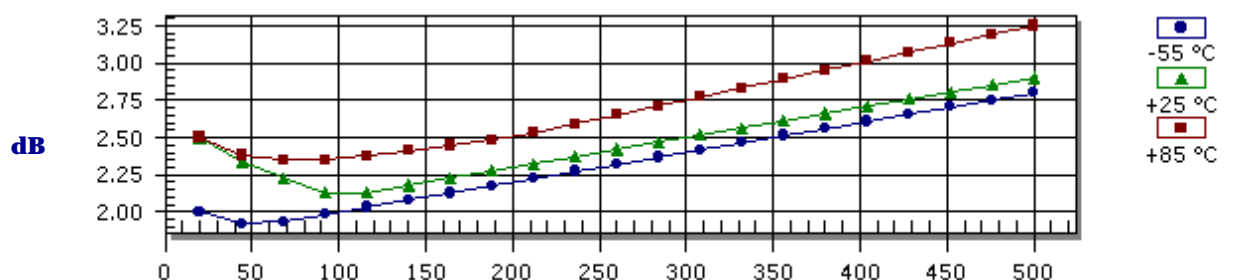
Package Drawing



Gain



Noise Figure



Products

Amplifiers

VCOs

Limiting Amplifiers

Switches

Linearizers

Limiters

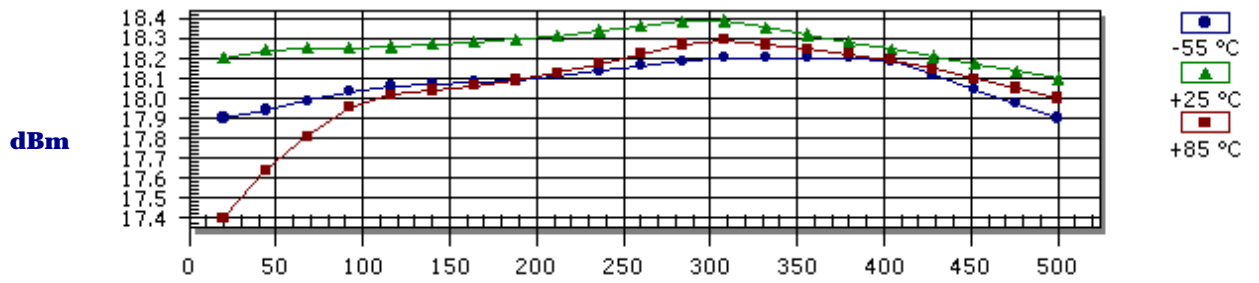
Analog Attenuators

Digital Attenuators

Detectors

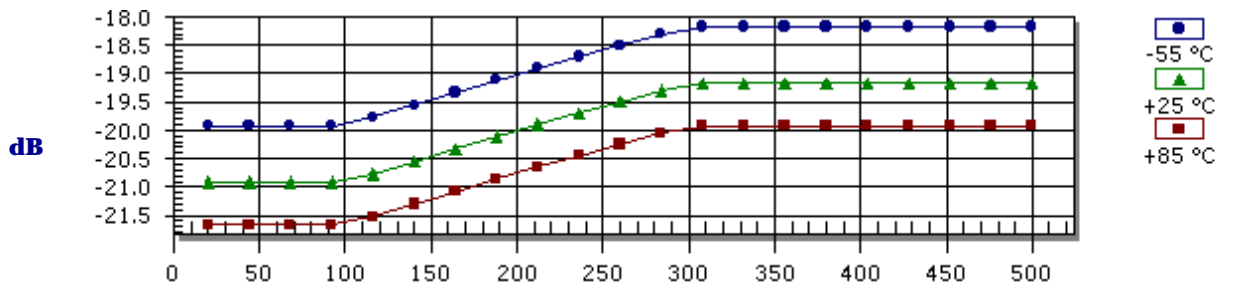
Frequency (MHz)

P_{1dB} Compression Point



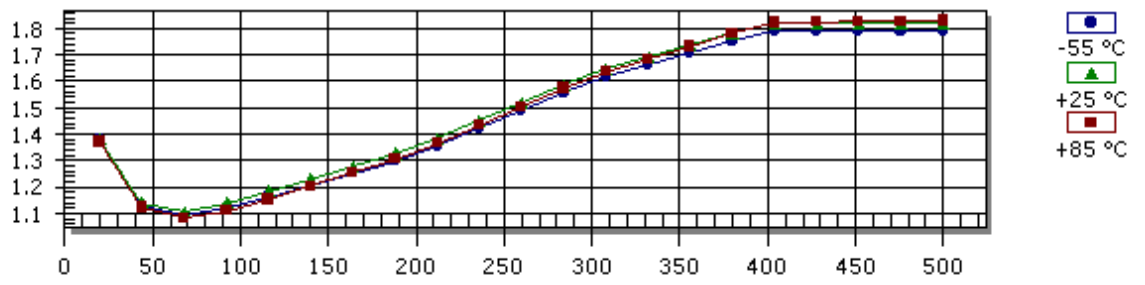
Frequency (MHz)

Reverse Isolation



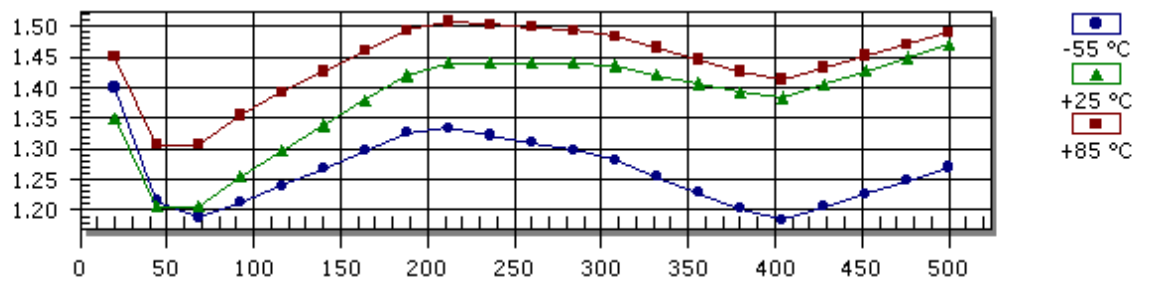
Frequency (MHz)

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
20.0	0.160	-76.00	6.490	-156.00	0.090	-155.00	0.150	-33.00
50.0	0.040	-87.00	6.480	166.00	0.090	163.00	0.080	20.00
100.0	0.070	-94.00	6.440	148.00	0.090	145.00	0.120	23.00
200.0	0.150	-123.00	6.460	114.00	0.100	108.00	0.180	3.00
300.0	0.240	-159.00	6.500	80.00	0.110	75.00	0.180	-30.00
400.0	0.290	155.00	6.650	41.00	0.110	41.00	0.160	-82.00
500.0	0.290	89.00	6.580	1.00	0.110	5.00	0.190	-161.00

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	18.0 Volts
Continuous RF Input Power	13.0 dBm	Short Term RF Input Power (1 minute max)	100.0 mW
Maximum Peak Power (3 µsec max)	0.2 W		

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