

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

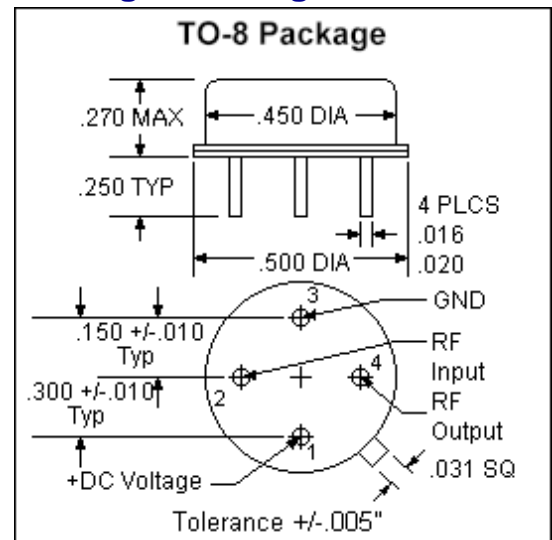
TM6503 / SM6503*

* Part number for additional environmental screening.

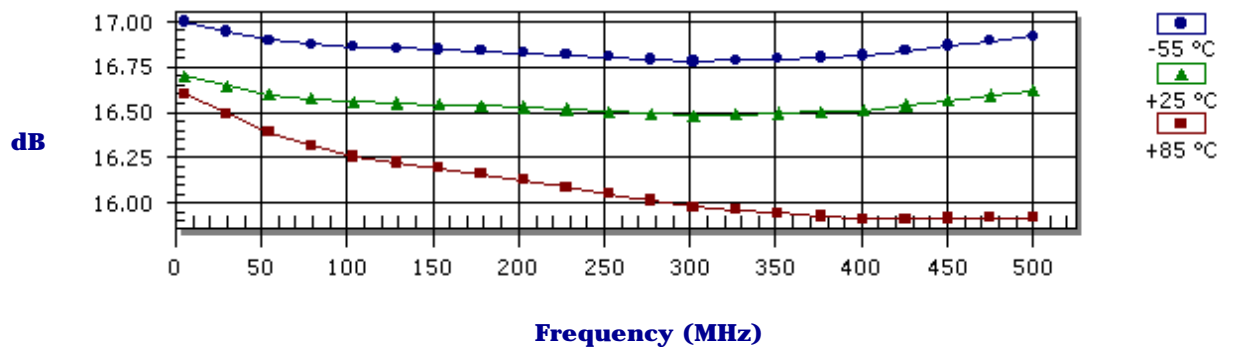
Performance Data

Frequency	5.0 - 500.0 MHz
Gain	16.5 dB Typical 15.5 dB Min
Noise Figure	3.5 dB Typical 4.5 dB Max
P _{1dB}	1.5 dBm Typical 0.0 dBm Min
3 rd Order Intercept	14.0 dBm Typical
2 nd Order Intercept	16.0 dBm Typical
VSWR	1.8/2.0 Input Typ/Max 1.5/2.0 Output Typ/Max
Reverse Isolation	-20.0 dB Typical -18.0 dB Min
Power Supply	15.0 Volts 10.0 mA
Operating Temperature	-55.0 - 85.0 °C

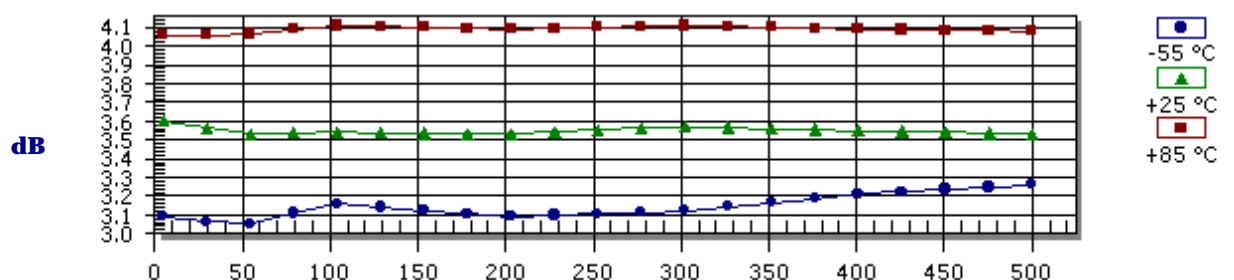
Package Drawing



Gain



Noise Figure



Products

Amplifiers

VCOs

Limiting Amplifiers

Switches

Linearizers

Limiters

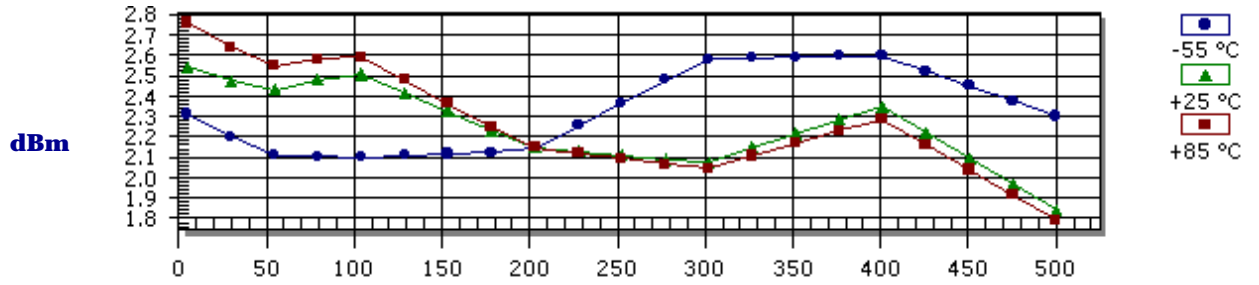
Analog Attenuators

Digital Attenuators

Detectors

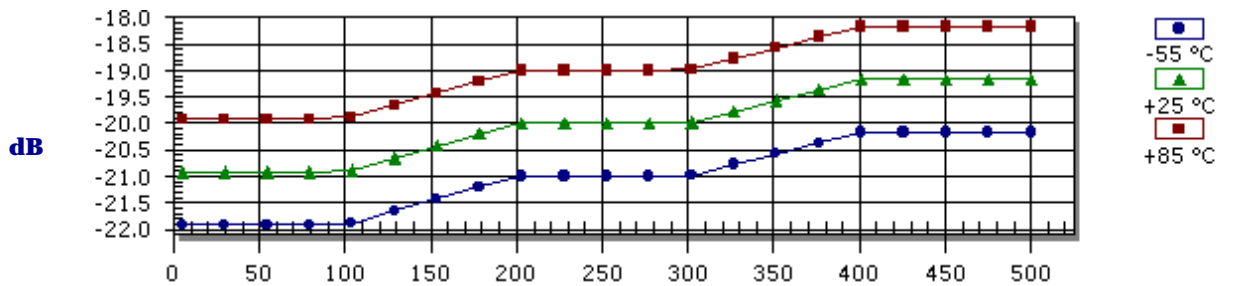
Frequency (MHz)

P_{1dB} Compression Point



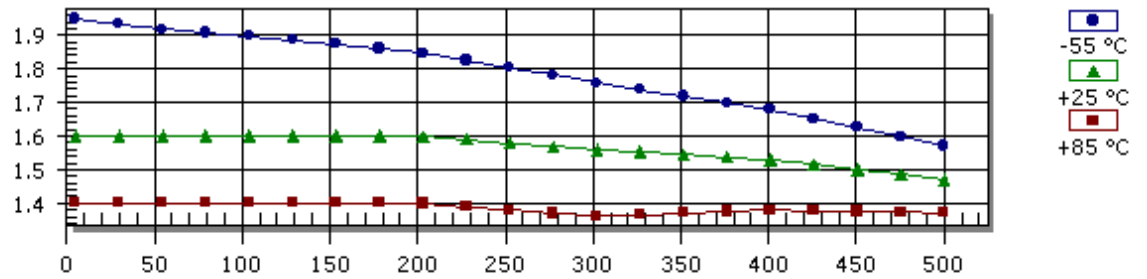
Frequency (MHz)

Reverse Isolation



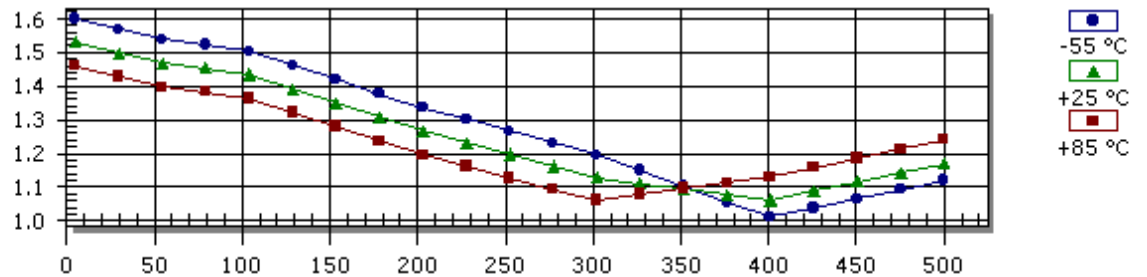
Frequency (MHz)

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
5.0	0.230	-177.00	6.840	-178.00	0.090	4.00	0.210	-176.00
50.0	0.230	165.00	6.760	169.00	0.090	-1.00	0.190	171.00
100.0	0.230	149.00	6.730	158.00	0.090	-1.00	0.180	162.00
200.0	0.230	120.00	6.710	136.00	0.100	-3.00	0.120	147.00
300.0	0.220	90.00	6.670	114.00	0.100	-8.00	0.060	147.00
400.0	0.210	60.00	6.690	92.00	0.110	-13.00	0.030	-118.00
500.0	0.190	24.00	6.780	59.00	0.110	-19.00	0.080	-114.00

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)	50.0 mW
Maximum Peak Power (3 µsec max)	0.5 W		

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