

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

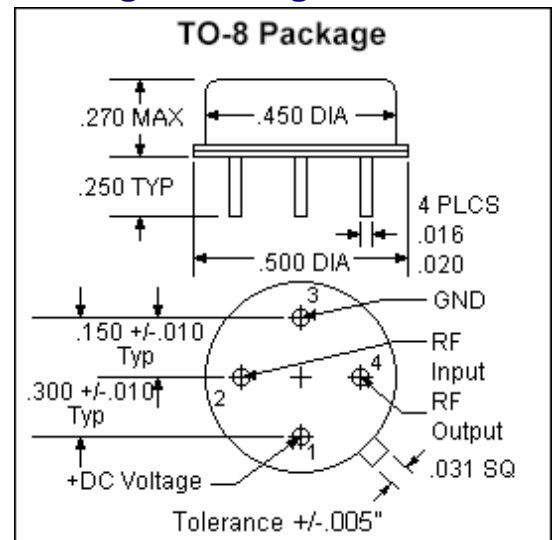
TM5131 / SM5131*

* Part number for additional environmental screening.

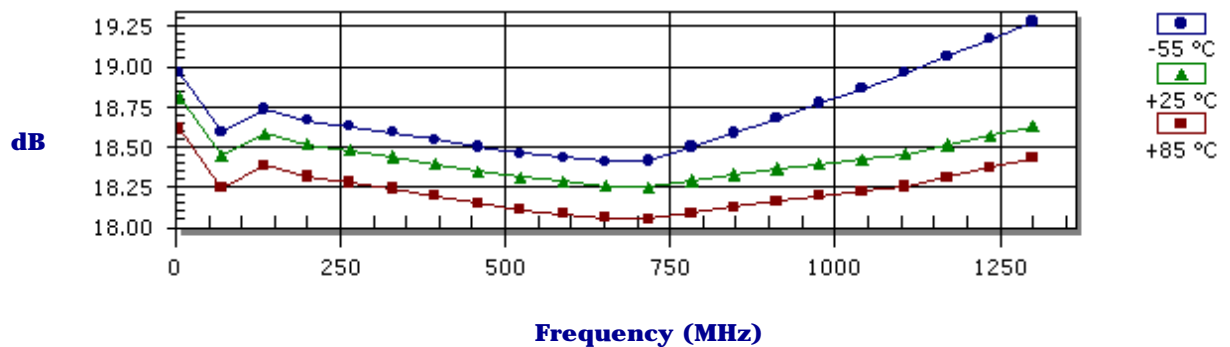
Performance Data

Frequency	5.0 - 1300.0 MHz
Gain	18.0 dB Typical 17.0 dB Min
Noise Figure	5.0 dB Typical 5.5 dB Max
P _{1dB}	7.5 dBm Typical 6.0 dBm Min
3 rd Order Intercept	20.0 dBm Typical
2 nd Order Intercept	40.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.6/2.0 Output Typ/Max
Reverse Isolation	-29.0 dB Typical -27.0 dB Min
Power Supply	15.0 Volts 40.0 mA
Operating Temperature	-55.0 - 85.0 °C

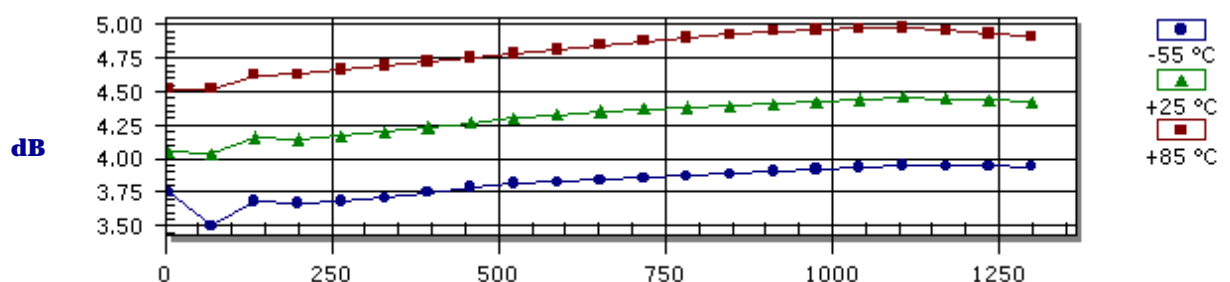
Package Drawing



Gain



Noise Figure



Products

Amplifiers

VCOs

Limiting Amplifiers

Switches

Linearizers

Limiters

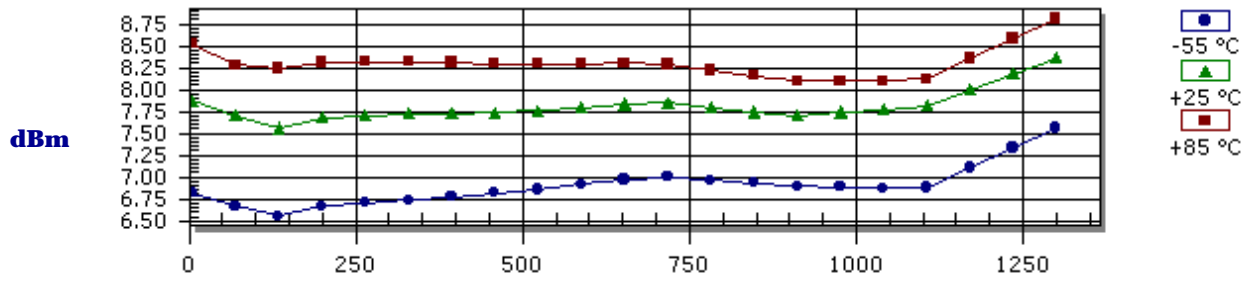
Analog Attenuators

Digital Attenuators

Detectors

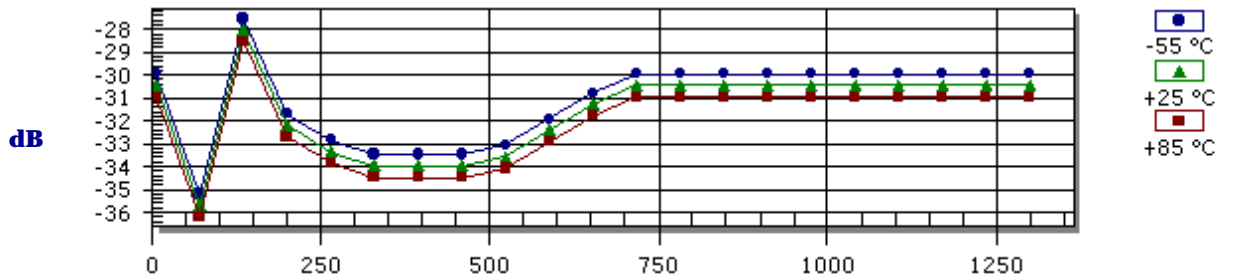
Frequency (MHz)

P_{1dB} Compression Point



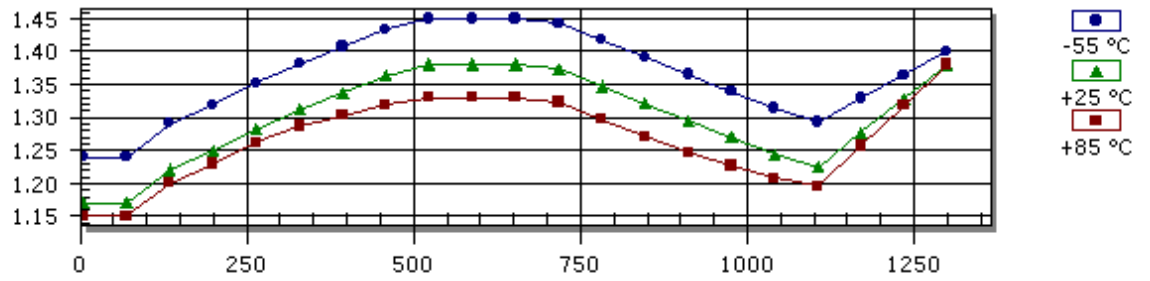
Frequency (MHz)

Reverse Isolation



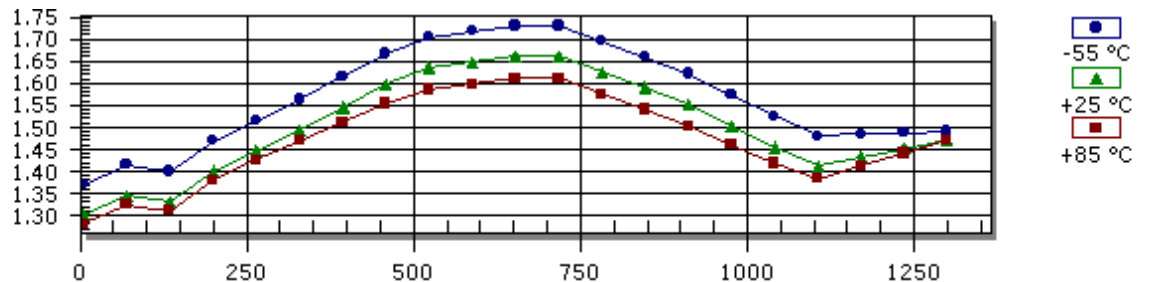
Frequency (MHz)

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	0.080	-166.00	8.720	3.00	0.030	5.00	0.130	-172.00
10.0	0.080	-171.00	8.670	0.00	0.030	3.00	0.130	-175.00
50.0	0.080	-171.00	8.460	-9.00	0.020	-4.00	0.140	-174.00
100.0	0.090	-169.00	8.480	-18.00	0.030	0.00	0.140	-170.00
300.0	0.130	-169.00	8.380	-54.00	0.020	-6.00	0.190	-168.00
500.0	0.160	174.00	8.240	-90.00	0.020	-11.00	0.240	176.00
700.0	0.160	146.00	8.170	-125.00	0.030	-22.00	0.250	153.00
900.0	0.130	108.00	8.280	-160.00	0.030	-31.00	0.220	124.00
1100.0	0.100	38.00	8.370	163.00	0.030	-49.00	0.170	74.00
1300.0	0.160	-47.00	8.540	124.00	0.030	-75.00	0.190	-4.00

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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