

Part/Keyword Search



Detailed Drawing



Printer Friendly
Datasheet

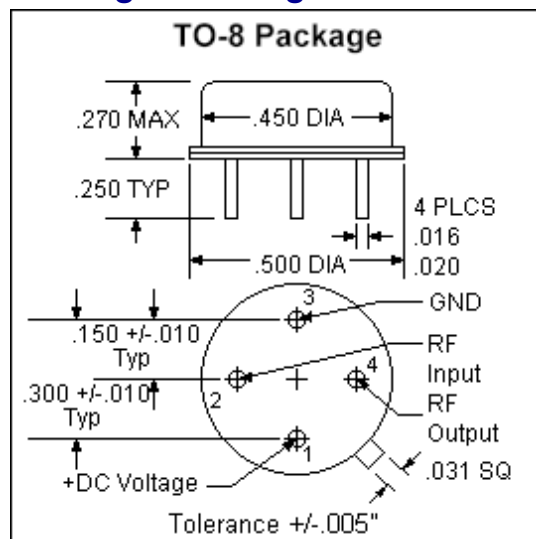
TR7216 / SM7216*

* Part number for additional environmental screening.

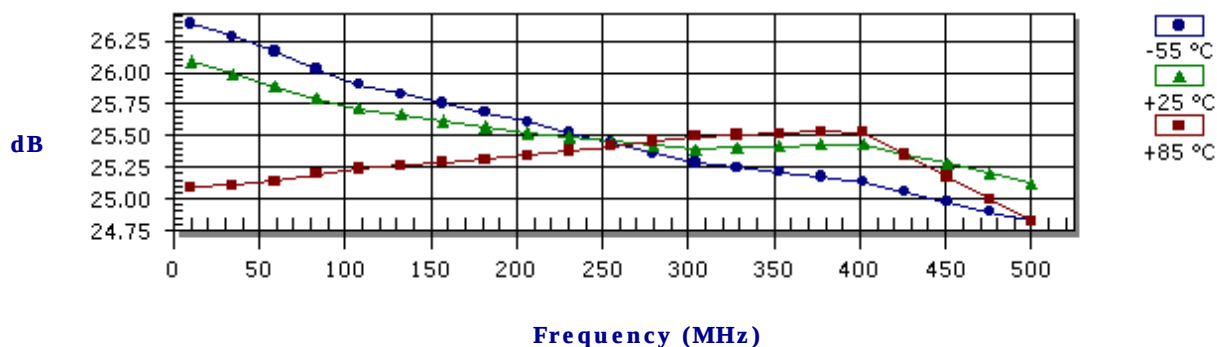
Performance Data

Frequency	10.0 - 500.0 MHz
Gain	25.5 dB Typical 24.0 dB Min
Noise Figure	2.5 dB Typical 3.0 dB Max
P _{1dB}	20.0 dBm Typical 18.0 dBm Min
3 rd Order Intercept	33.0 dBm Typical
2 nd Order Intercept	44.0 dBm Typical
VSWR	1.8/2.0 Input Typ/Max 1.5/2.0 Output Typ/Max
Reverse Isolation	-32.0 dB Typical -30.0 dB Min
Power Supply	12.0 Volts 65.0 mA
Operating Temperature	-55.0 - 85.0 °C

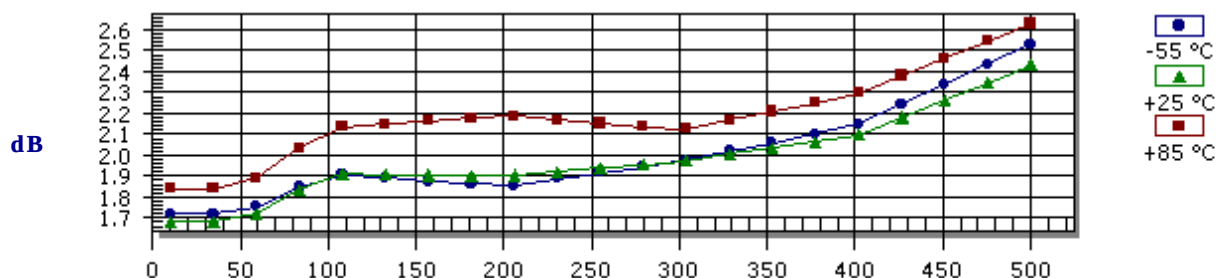
Package Drawing



Gain

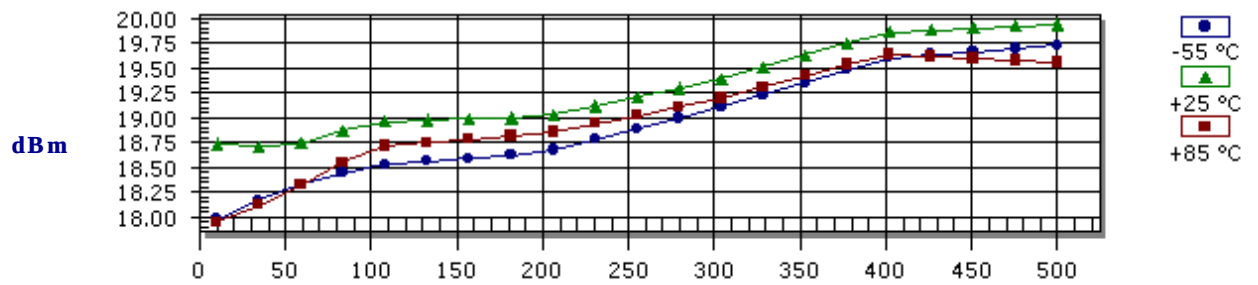


Noise Figure



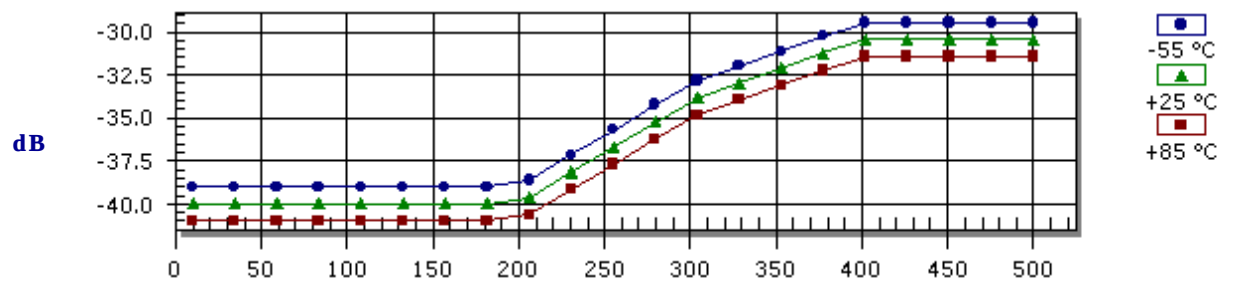
Frequency (MHz)

P_{1dB} Compression Point



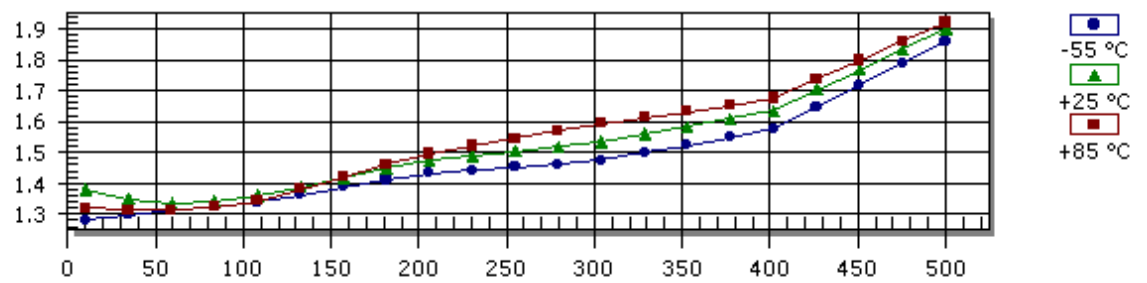
Frequency (MHz)

Reverse Isolation



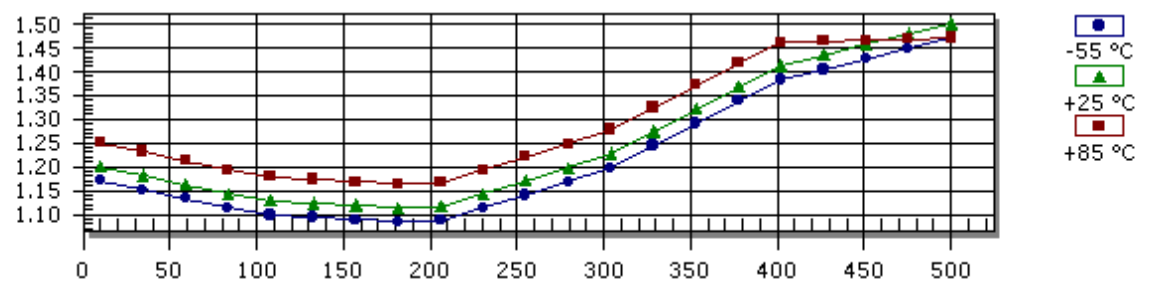
Frequency (MHz)

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
10.0	0.160	-29.00	20.160	9.00	0.010	1.00	0.090	-137.00
50.0	0.140	-43.00	19.770	-26.00	0.010	-30.00	0.080	171.00
100.0	0.150	-69.00	19.350	-55.00	0.010	-69.00	0.060	145.00
200.0	0.190	-115.00	18.910	-110.00	0.010	-123.00	0.050	149.00
300.0	0.210	-154.00	18.600	-166.00	0.020	173.00	0.100	127.00
400.0	0.240	173.00	18.700	135.00	0.030	135.00	0.170	77.00
500.0	0.310	135.00	18.020	72.00	0.030	88.00	0.200	23.00

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	15.0 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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