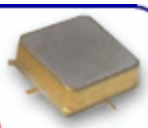


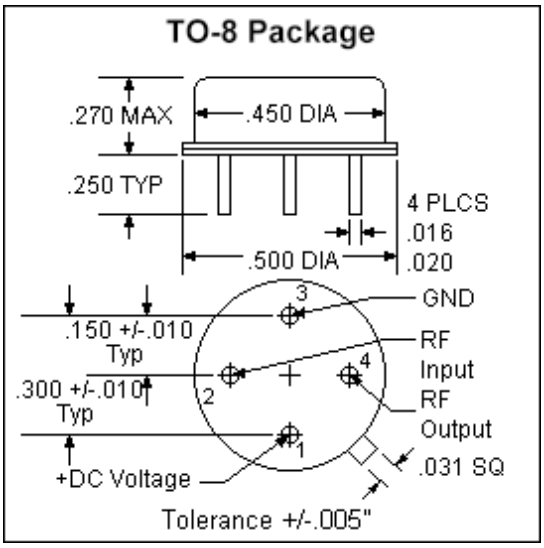
TM9136 / SM9136*

* Part number for additional environmental screening.

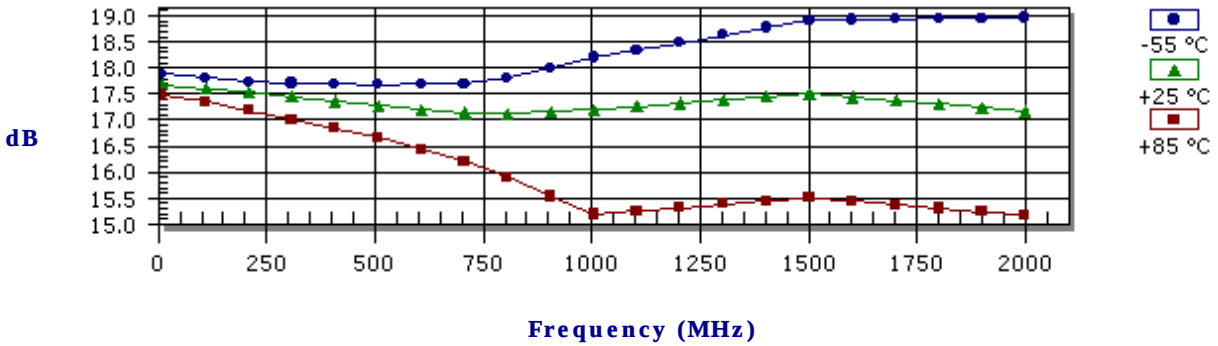
Performance Data

Frequency	10.0 - 2000.0 MHz
Gain	17.0 dB Typical 15.0 dB Min
Noise Figure	5.5 dB Typical 7.5 dB Max
P_{1dB}	12.0 dBm Typical 11.0 dBm Min
3rd Order Intercept	22.0 dBm Typical
2nd Order Intercept	42.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.5/2.0 Output Typ/Max
Reverse Isolation	-26.0 dB Typical -25.0 dB Min
Power Supply	15.0 Volts 63.0 mA
Operating Temperature	-55.0 - 85.0 °C

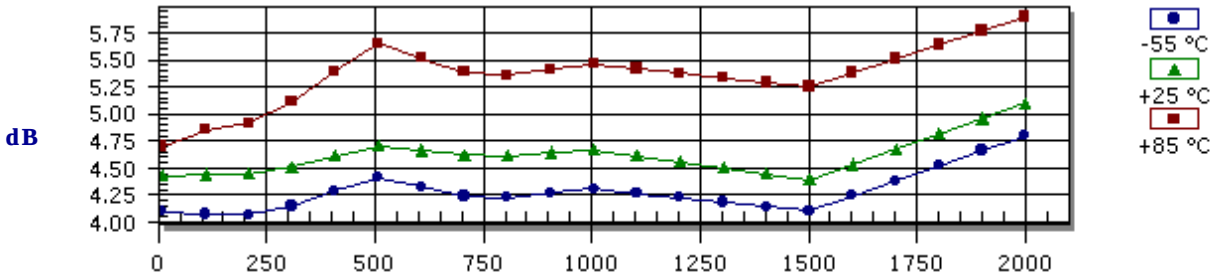
Package Drawing



Gain

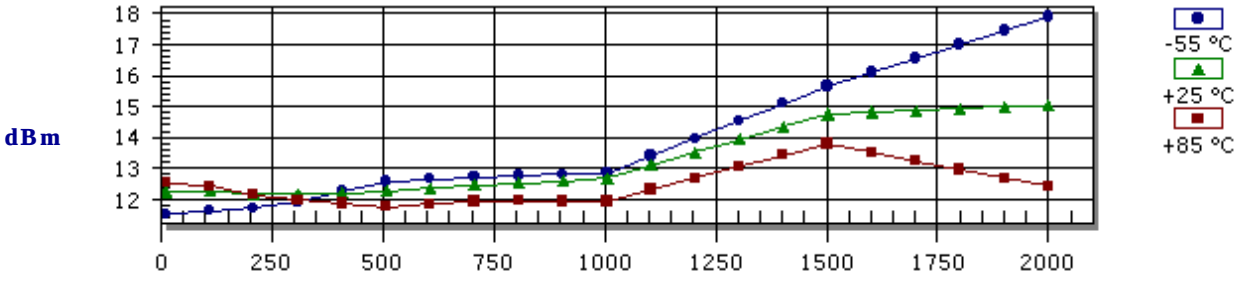


Noise Figure



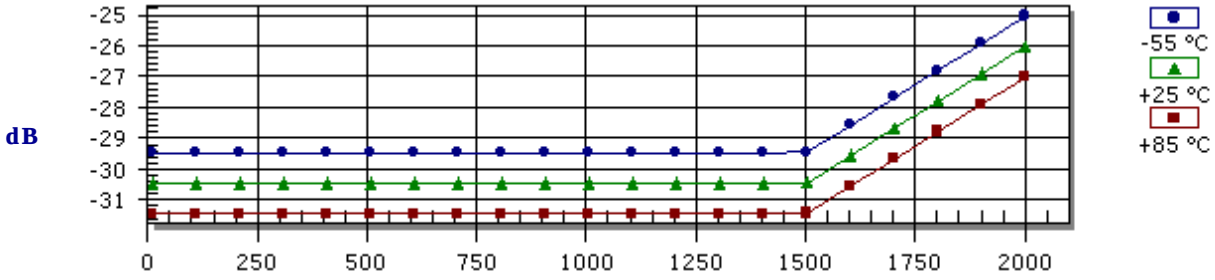
Frequency (MHz)

P_{1dB} Compression Point



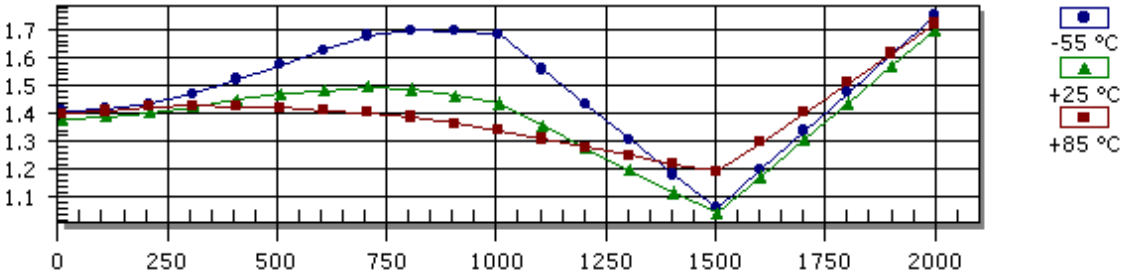
Frequency (MHz)

Reverse Isolation



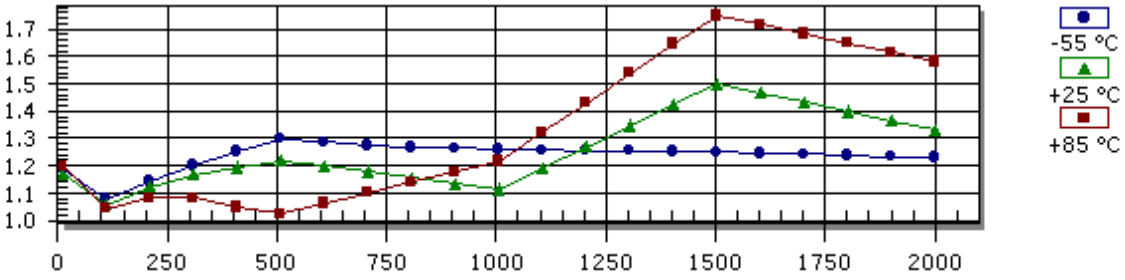
Frequency (MHz)

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	178.00	7.660	6.00	0.030	9.00	0.080	104.00
50.0	0.160	179.00	7.630	-8.00	0.030	2.00	0.010	151.00
250.0	0.170	175.00	7.510	-48.00	0.030	-6.00	0.070	-141.00
500.0	0.190	159.00	7.310	-95.00	0.030	-11.00	0.100	176.00
750.0	0.200	138.00	7.160	-141.00	0.030	-17.00	0.080	122.00
1000.0	0.180	104.00	7.240	173.00	0.030	-26.00	0.050	21.00
1500.0	0.020	22.00	7.510	76.00	0.030	-50.00	0.200	-126.00
2000.0	0.260	42.00	7.220	-54.00	0.050	-81.00	0.140	103.00

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	10.0 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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