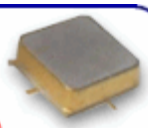


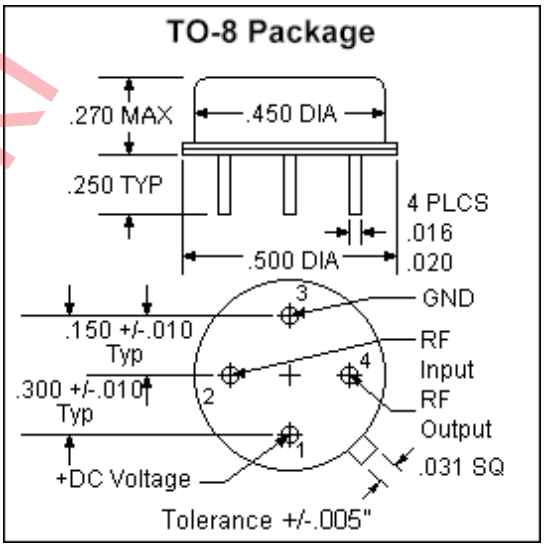
TR3010 / SM3010*

* Part number for additional environmental screening.

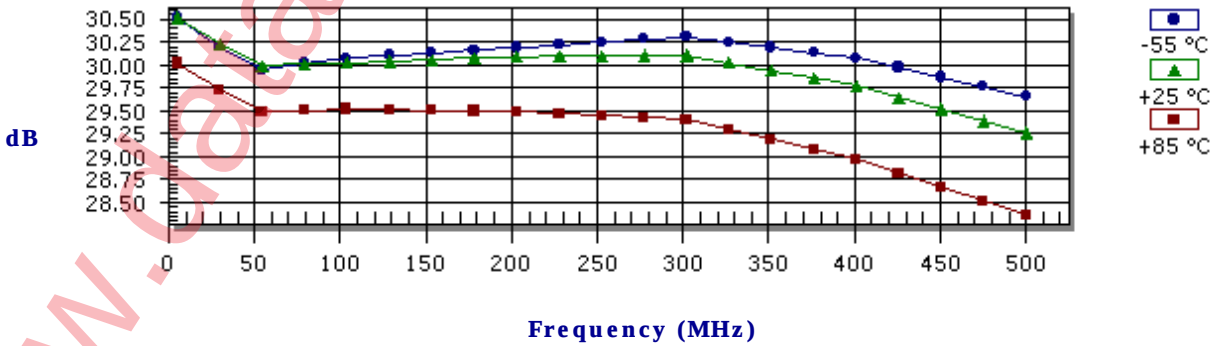
Performance Data

Frequency	5.0 - 500.0 MHz
Gain	30.0 dB Typical 28.0 dB Min
Noise Figure	3.5 dB Typical 5.0 dB Max
P_{1dB}	21.5 dBm Typical 20.0 dBm Min
3rd Order Intercept	34.0 dBm Typical
2nd Order Intercept	48.0 dBm Typical
VSWR	1.2/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-35.0 dB Typical -33.0 dB Min
Power Supply	12.0 Volts 130.0 mA
Operating Temperature	-55.0 - 85.0 °C

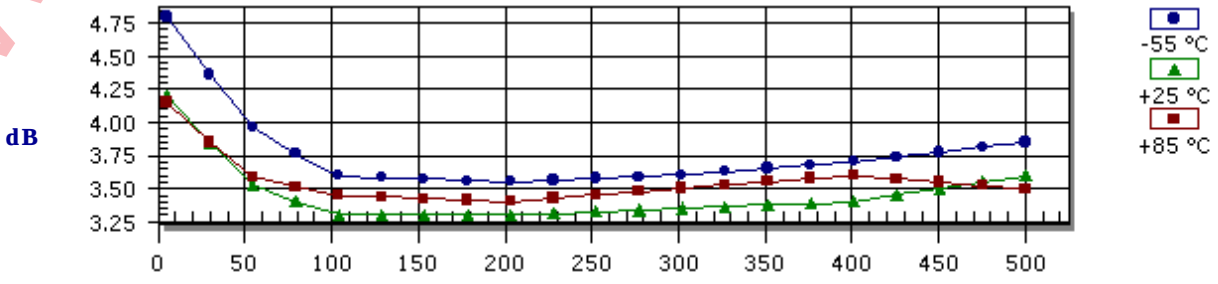
Package Drawing



Gain

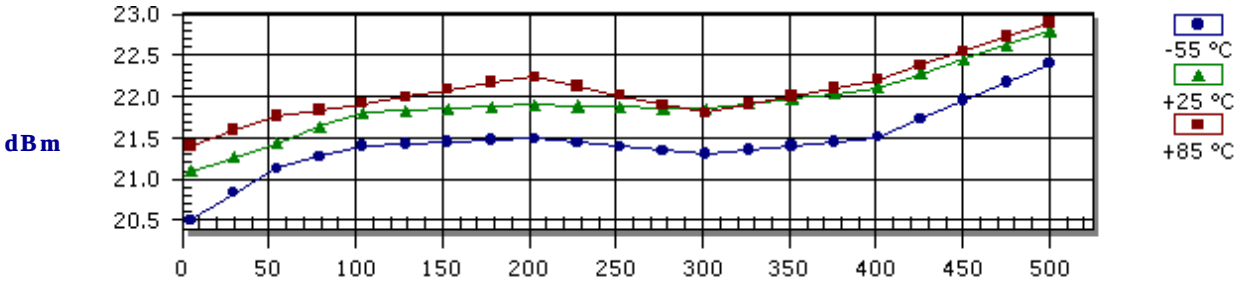


Noise Figure



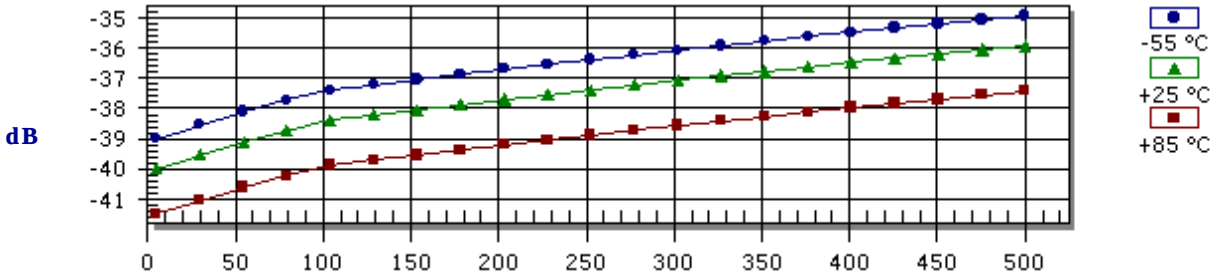
Frequency (MHz)

P_{1dB} Compression Point



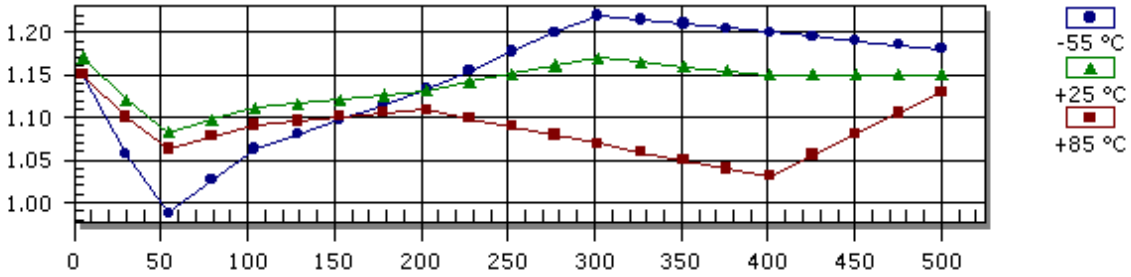
Frequency (MHz)

Reverse Isolation



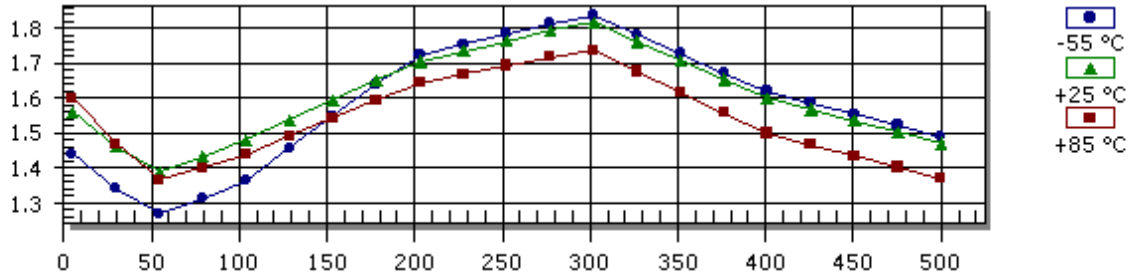
Frequency (MHz)

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
5.0	0.080	105.00	33.560	15.00	0.010	13.00	0.220	-162.00
50.0	0.040	-30.00	31.600	-21.00	0.011	7.00	0.160	-165.00
100.0	0.050	-76.00	31.690	-44.00	0.012	9.00	0.190	-162.00
200.0	0.060	-149.00	31.970	-90.00	0.013	3.00	0.260	-176.00
300.0	0.080	148.00	32.040	-138.00	0.014	-1.00	0.290	163.00
400.0	0.070	78.00	30.840	172.00	0.015	-2.00	0.230	140.00
500.0	0.070	-45.00	29.030	121.00	0.016	-18.00	0.190	123.00

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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