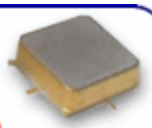


Detailed Drawing

Printer Friendly Datasheet

TN7207 / SN7207*

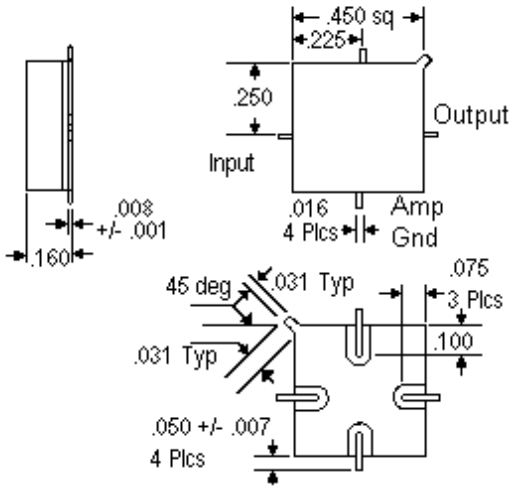
* Part number for additional environmental screening.

Performance Data

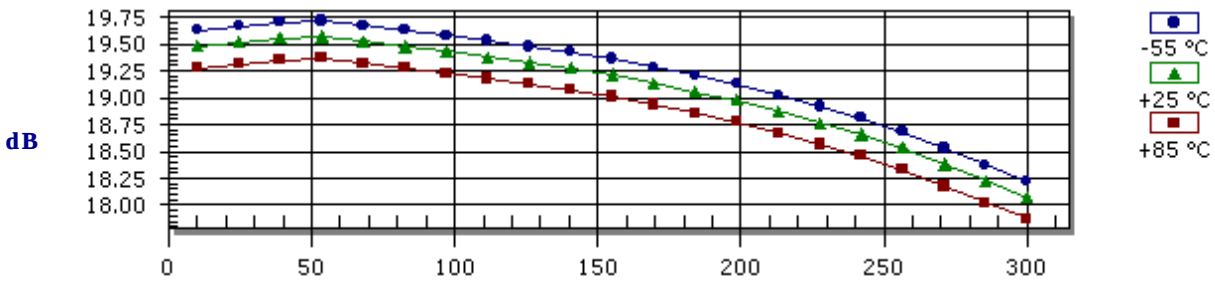
Frequency	10.0 - 300.0 MHz
Gain	18.0 dB Typical 17.0 dB Min
Noise Figure	2.0 dB Typical 3.0 dB Max
P_{1dB}	16.0 dBm Typical 15.0 dBm Min
3rd Order Intercept	31.0 dBm Typical
2nd Order Intercept	42.0 dBm Typical
VSWR	1.7/2.0 Input Typ/Max 1.7/2.0 Output Typ/Max
Reverse Isolation	-21.0 dB Typical -20.0 dB Min
Power Supply	15.0 Volts 33.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

SM-3 (Surface Mount)

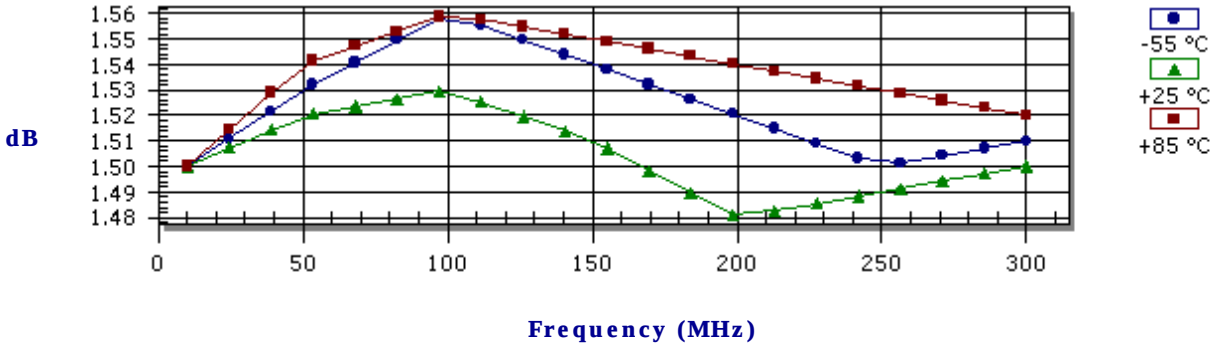


Gain

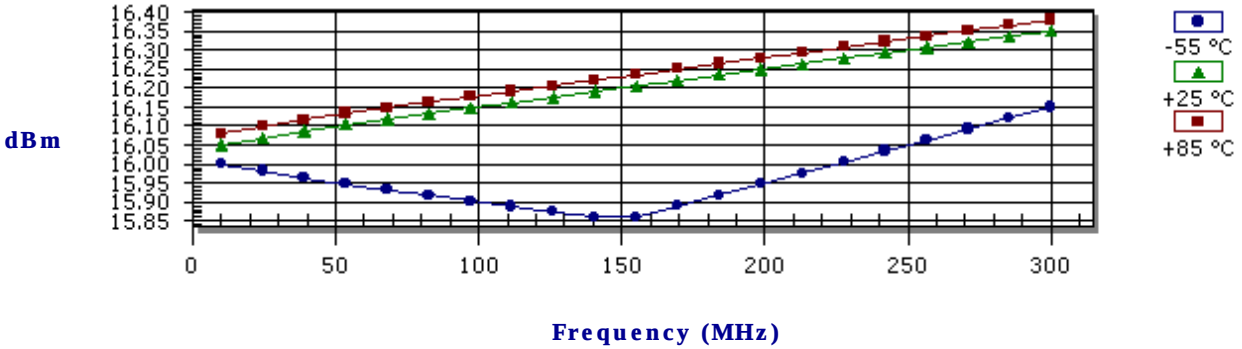


Frequency (MHz)

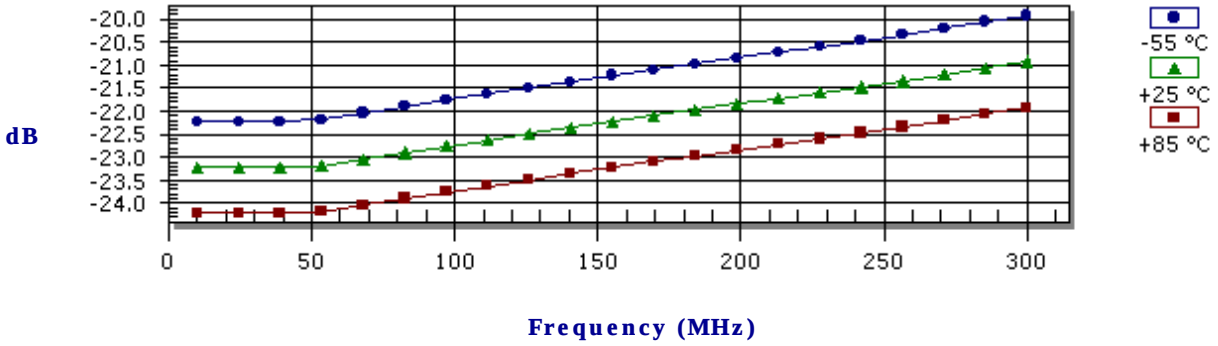
Noise Figure



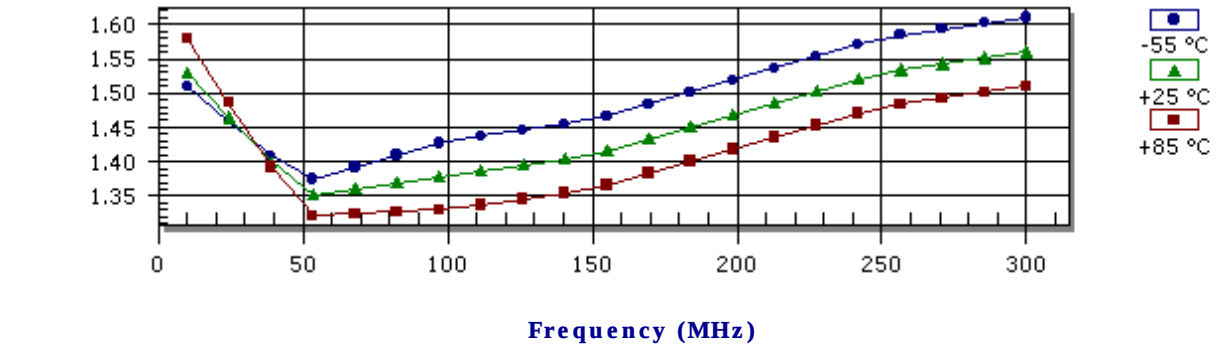
P_{1dB} Compression Point



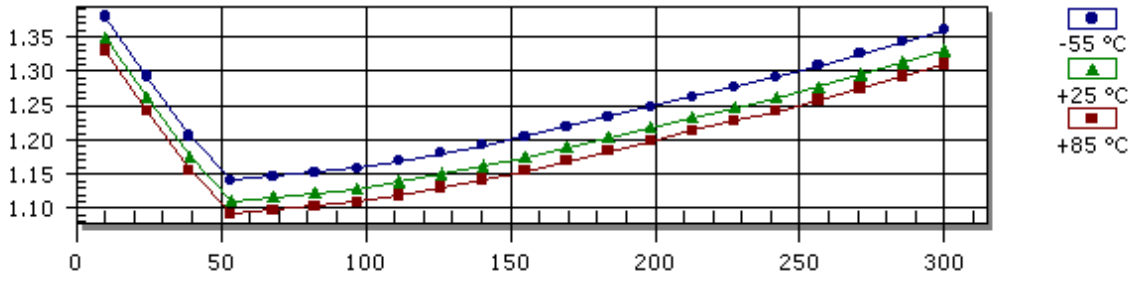
Reverse Isolation



Input VSWR



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	0.210	-39.00	9.420	-172.00	0.069	-171.00	0.150	-56.00
50.0	0.150	-29.00	9.530	167.00	0.069	165.00	0.050	-8.00
100.0	0.160	-41.00	9.350	150.00	0.073	148.00	0.060	23.00
150.0	0.170	-59.00	9.160	134.00	0.077	132.00	0.080	37.00
200.0	0.190	-77.00	8.880	118.00	0.081	119.00	0.100	41.00
250.0	0.210	-98.00	8.510	102.00	0.085	104.00	0.120	43.00
300.0	0.220	-120.00	8.010	87.00	0.090	92.00	0.140	40.00

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)**	100.0 mW
Maximum Peak Power (3 µsec max)	0.2 W		

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