

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

TN7370 / SN7370*

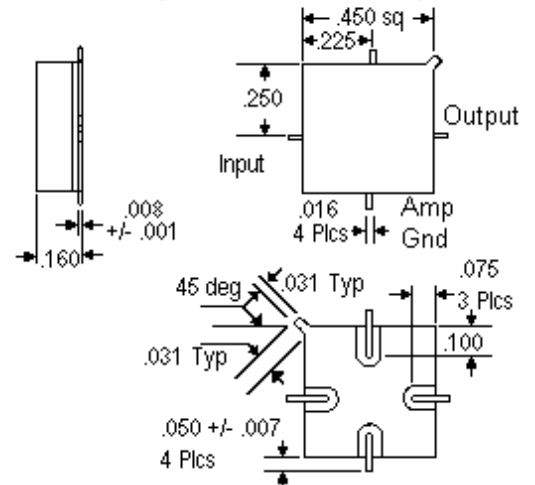
* Part number for additional environmental screening.

Performance Data

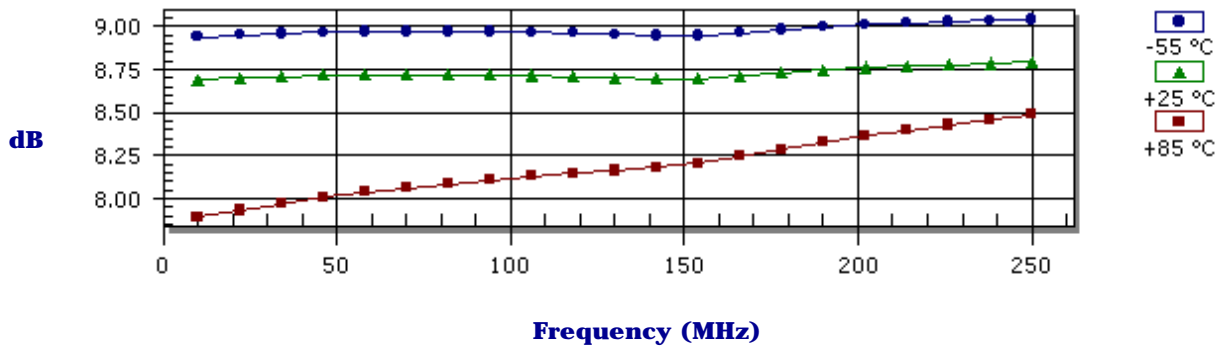
Frequency	20.0 - 250.0 MHz
Gain	8.5 dB Typical 7.3 dB Min
Noise Figure	1.9 dB Typical 3.4 dB Max
P _{1dB}	23.0 dBm Typical 20.0 dBm Min
3 rd Order Intercept	40.0 dBm Typical
2 nd Order Intercept	49.0 dBm Typical
VSWR	1.2/2.0 Input Typ/Max 1.4/2.0 Output Typ/Max
Reverse Isolation	-11.0 dB Typical -10.5 dB Min
Power Supply	15.0 Volts 45.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

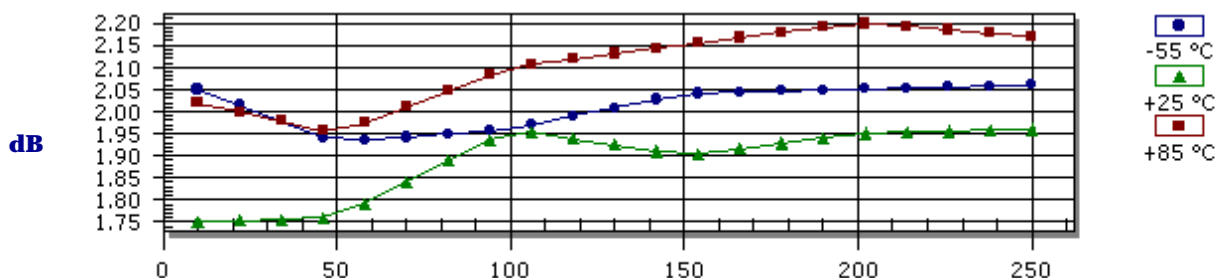
SM-3 (Surface Mount)



Gain

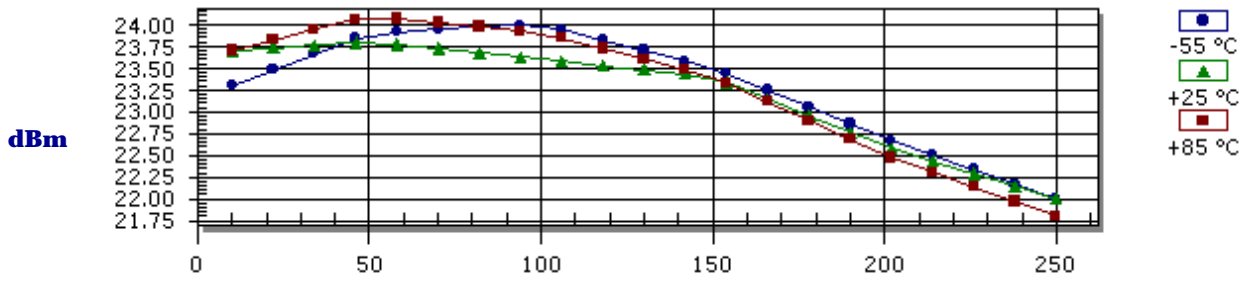


Noise Figure



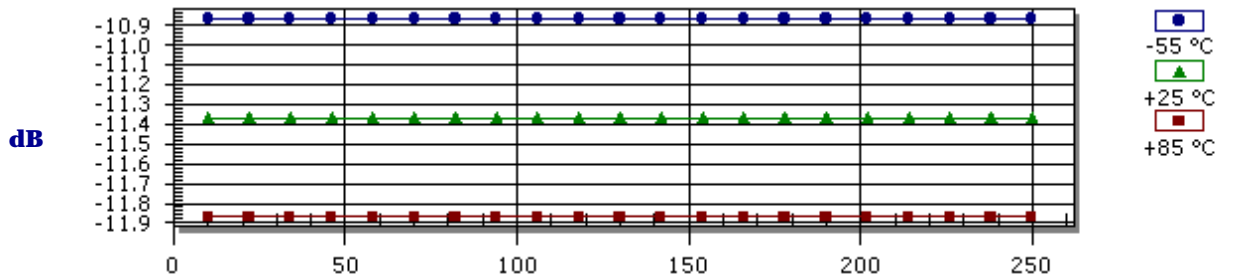
Frequency (MHz)

P_{1dB} Compression Point



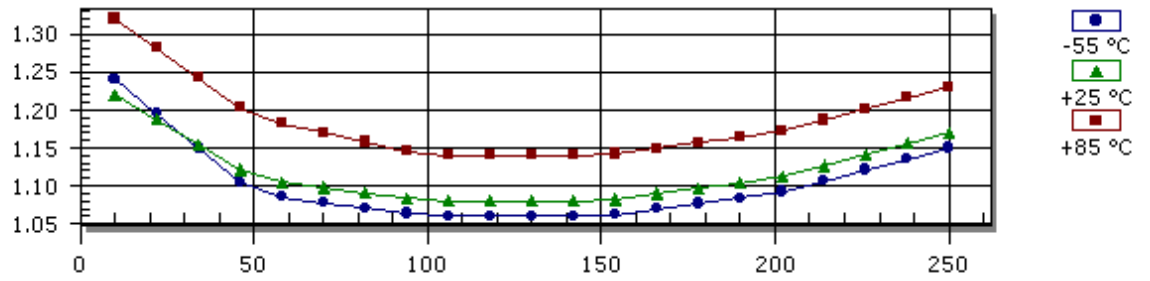
Frequency (MHz)

Reverse Isolation



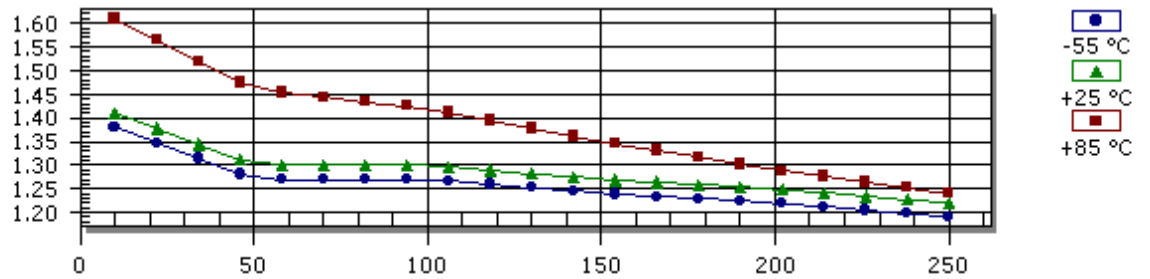
Frequency (MHz)

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	0.100	128.00	2.720	6.00	0.270	8.00	0.170	151.00
50.0	0.050	145.00	2.730	-10.00	0.270	-10.00	0.130	151.00
100.0	0.040	155.00	2.730	-23.00	0.270	-24.00	0.130	133.00
150.0	0.040	167.00	2.720	-36.00	0.270	-36.00	0.120	117.00
200.0	0.050	-179.00	2.740	-48.00	0.270	-50.00	0.110	104.00
250.0	0.080	-171.00	2.750	-61.00	0.270	-62.00	0.100	102.00

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	18.0 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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