

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

## TN7104 / SN7104\*

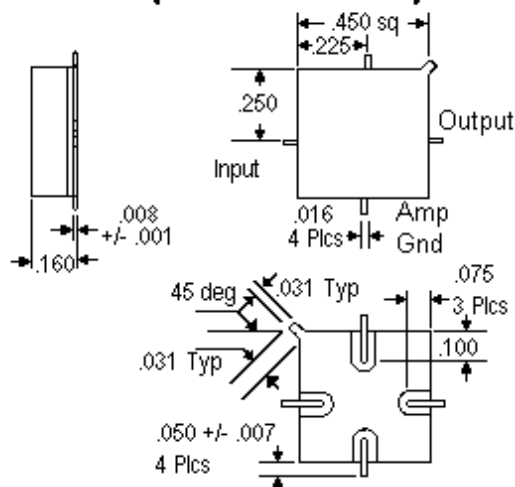
\* Part number for additional environmental screening.

### Performance Data

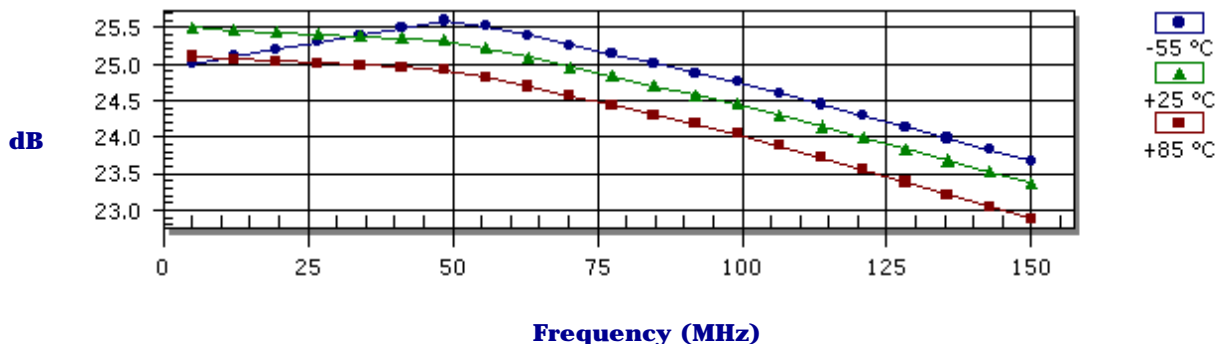
Frequency	5.0 - 150.0 MHz
Gain	24.0 dB Typical 22.5 dB Min
Noise Figure	1.9 dB Typical 2.5 dB Max
P <sub>1dB</sub>	12.0 dBm Typical 10.5 dBm Min
3 <sup>rd</sup> Order Intercept	25.0 dBm Typical
2 <sup>nd</sup> Order Intercept	31.0 dBm Typical
VSWR	1.8/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-27.0 dB Typical -26.0 dB Min
Power Supply	5.0 Volts 20.0 mA
Operating Temperature	-55.0 - 85.0 °C

### Package Drawing

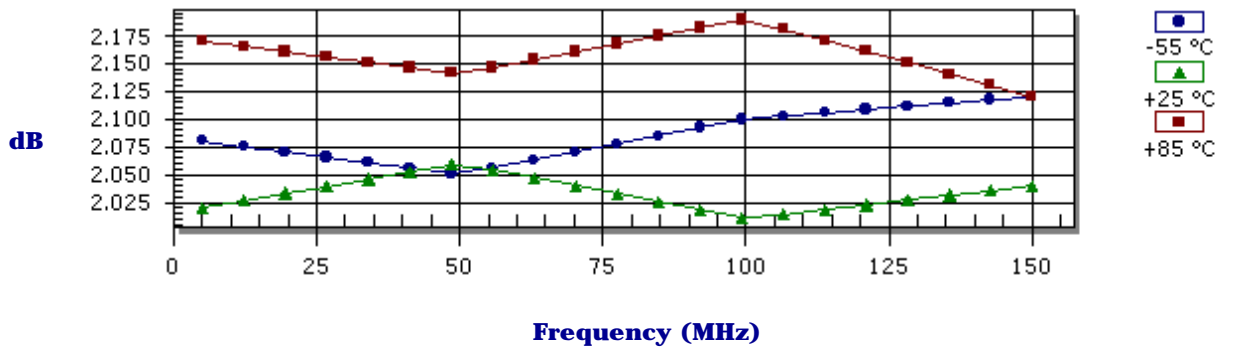
#### SM-3 (Surface Mount)



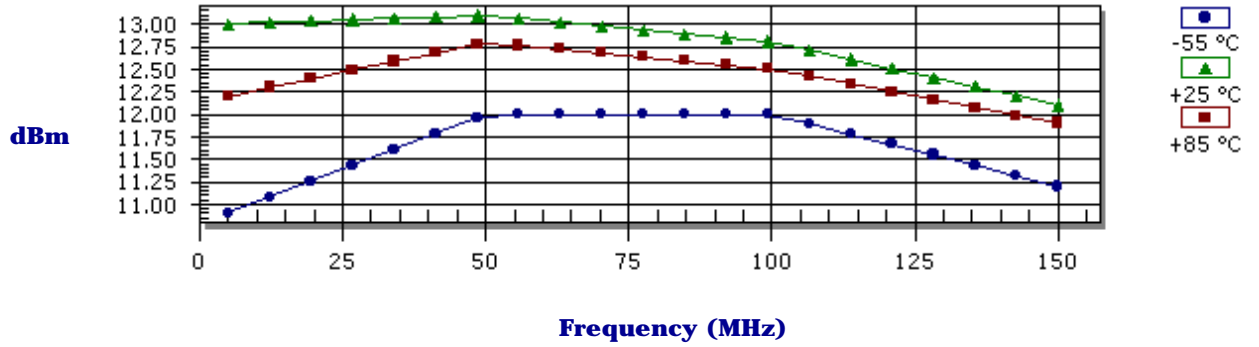
### Gain



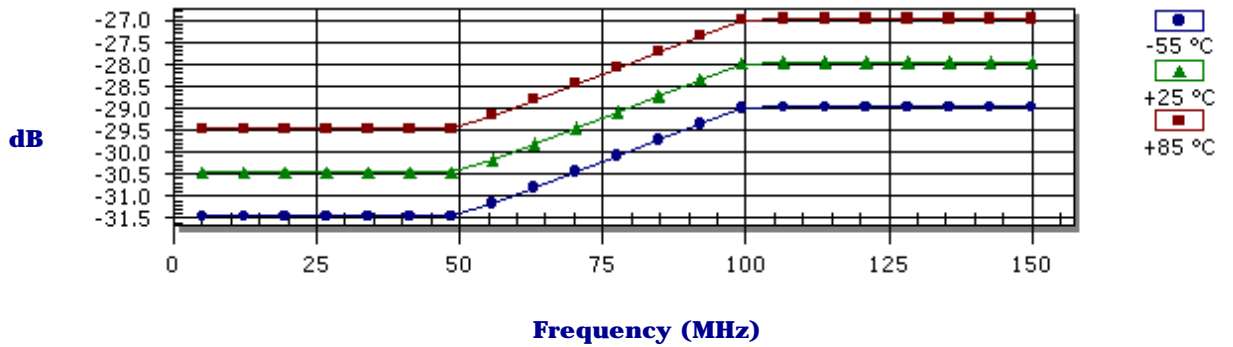
### Noise Figure



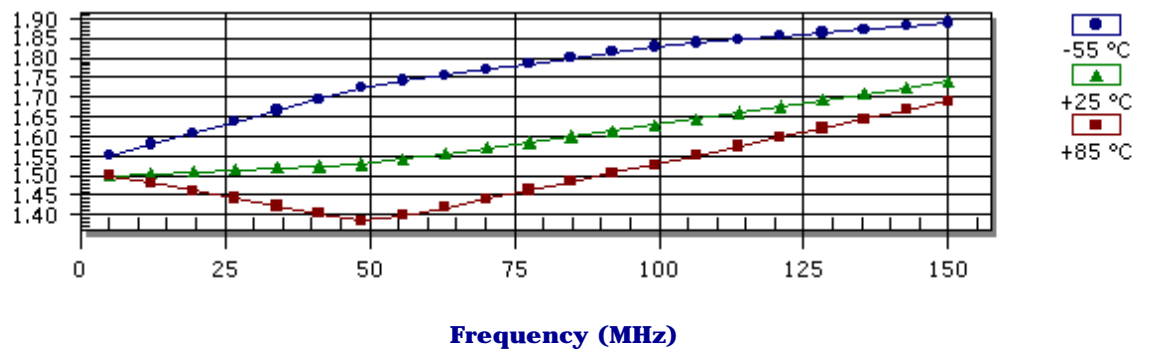
### **P<sub>1dB</sub> Compression Point**



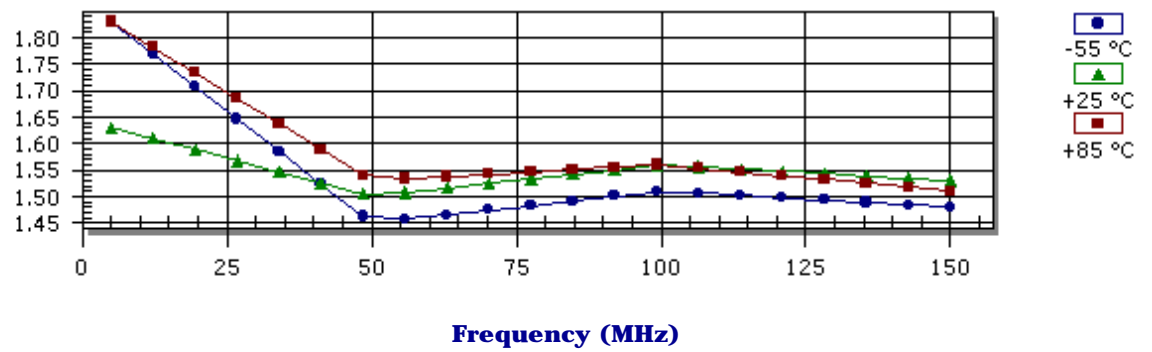
### **Reverse Isolation**



### **Input VSWR**



### **Output VSWR**



## S-Parameters

Frequency	S11 Mag	S11 Ang	S21 Mag	S21 Ang	S12 Mag	S12 Ang	S22 Mag	S22 Ang
5.0	0.200	-146.00	18.830	-173.00	0.030	9.00	0.240	189.00
50.0	0.210	-174.00	18.440	149.00	0.030	-2.00	0.200	173.00
100.0	0.240	-180.00	16.680	118.00	0.040	-6.00	0.220	161.00
150.0	0.270	172.00	14.750	91.00	0.040	-12.00	0.210	137.00

## 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	10.0 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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