

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

## TN7208 / SN7208\*

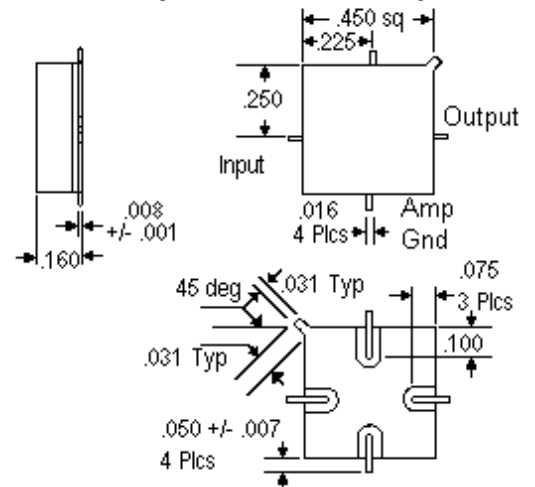
\* Part number for additional environmental screening.

### Performance Data

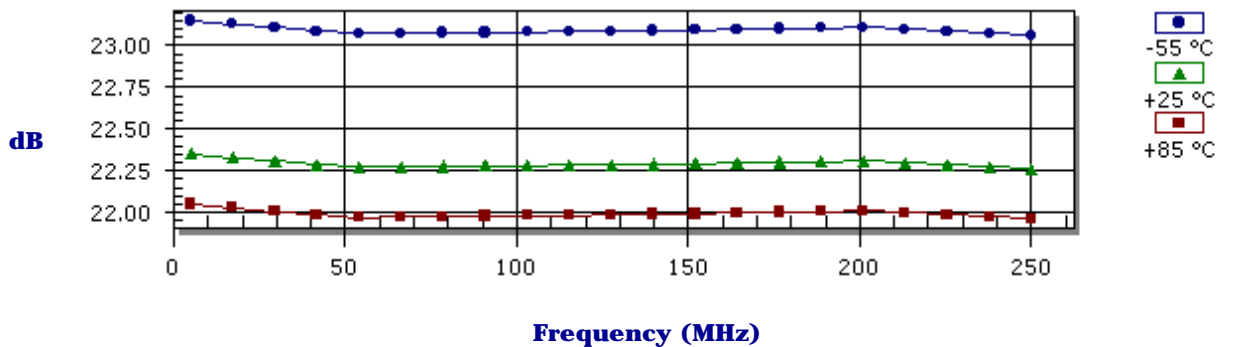
Frequency	5.0 - 250.0 MHz
Gain	22.5 dB Typical 21.0 dB Min
Noise Figure	1.4 dB Typical 2.0 dB Max
P <sub>1dB</sub>	3.0 dBm Typical 0.0 dBm Min
3 <sup>rd</sup> Order Intercept	16.0 dBm Typical
2 <sup>nd</sup> Order Intercept	13.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.2/2.0 Output Typ/Max
Reverse Isolation	-25.0 dB Typical -24.0 dB Min
Power Supply	15.0 Volts 10.0 mA
Operating Temperature	-55.0 - 85.0 °C

### Package Drawing

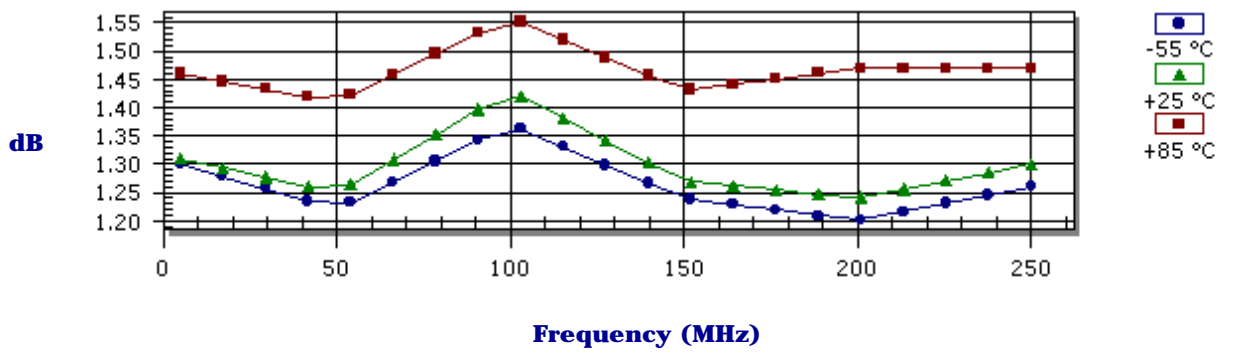
#### SM-3 (Surface Mount)



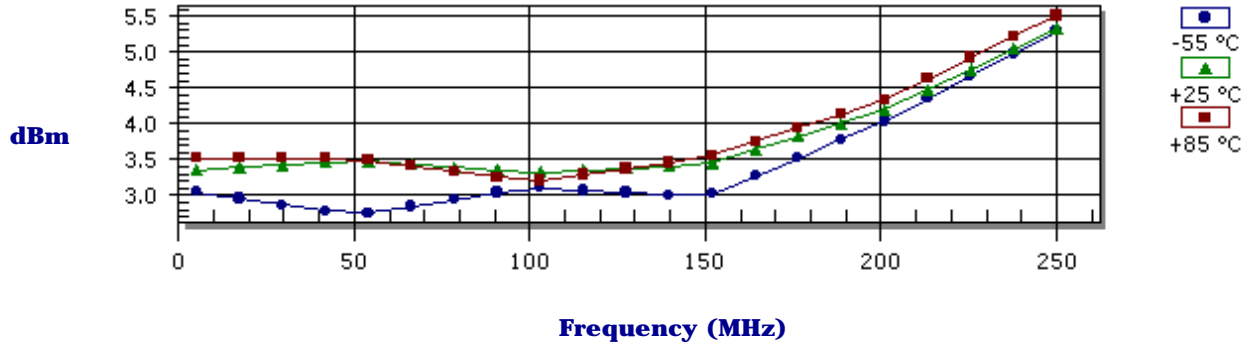
### Gain



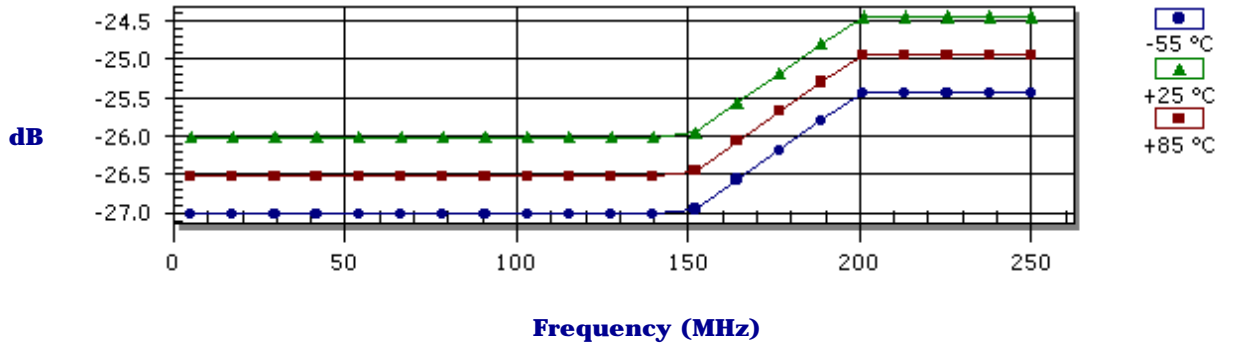
### Noise Figure



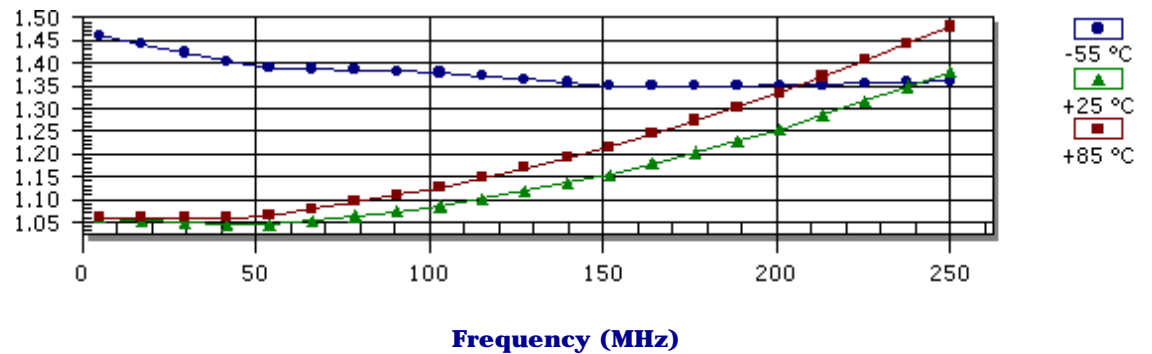
### **P<sub>1dB</sub> Compression Point**



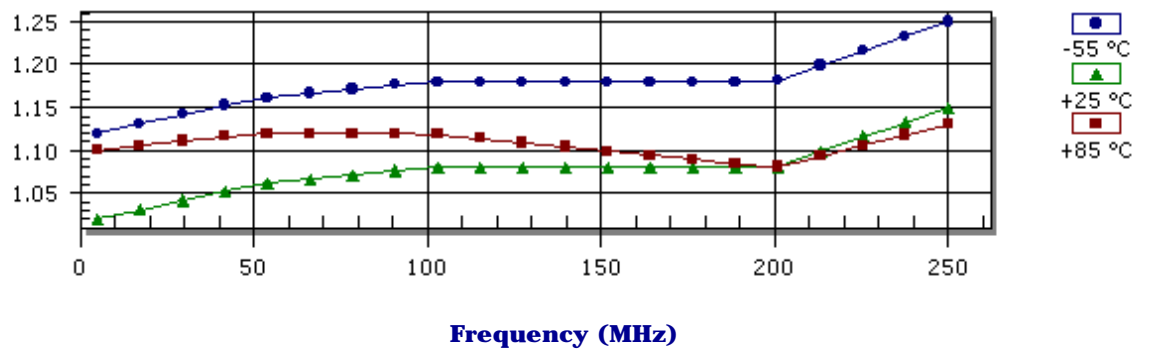
### **Reverse Isolation**



### **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	0.030	-165.00	13.110	-178.00	0.050	5.00	0.010	-140.00
50.0	0.020	-159.00	12.990	164.00	0.050	-1.00	0.030	79.00
100.0	0.040	-128.00	13.000	147.00	0.050	1.00	0.040	64.00
150.0	0.070	-115.00	13.020	130.00	0.050	1.00	0.040	65.00
200.0	0.110	-117.00	13.040	112.00	0.060	-1.00	0.040	76.00
250.0	0.160	-126.00	12.970	93.00	0.060	-1.00	0.070	110.00

## 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	6.0 dBm	Short Term RF Input Power (1 minute max)	50.0 mW
Maximum Peak Power (3 µsec max)	0.5 W		

# i2 Technologies US, Inc.

## HTML Pages converted to PDF Document

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