

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

## PN5325 / SPN5325\*

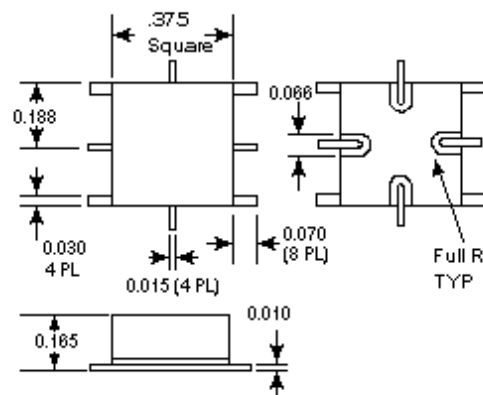
\* Part number for additional environmental screening.

### Performance Data

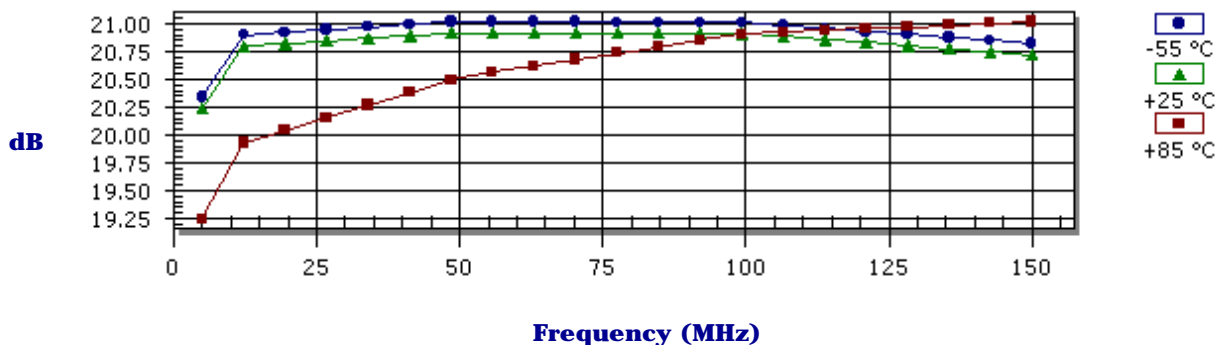
|                                 |   |
|---------------------------------|---|
| Frequency                       | 10.0 - 100.0 MHz                                |
| Gain                            | 20.5 dB Typical<br>19.5 dB Min                  |
| Noise Figure                    | 2.0 dB Typical<br>3.0 dB Max                    |
| P <sub>1dB</sub>                | 24.0 dBm Typical<br>22.5 dBm Min                |
| 3 <sup>rd</sup> Order Intercept | 40.0 dBm Typical                                |
| 2 <sup>nd</sup> Order Intercept | 52.0 dBm Typical                                |
| VSWR                            | 1.7/2.2 Input Typ/Max<br>1.4/2.2 Output Typ/Max |
| Reverse Isolation               | -24.0 dB Typical<br>-23.0 dB Min                |
| Power Supply                    | 12.0 Volts<br>85.0 mA                           |
| Operating Temperature           | -55.0 - 85.0 °C                                 |

### Package Drawing

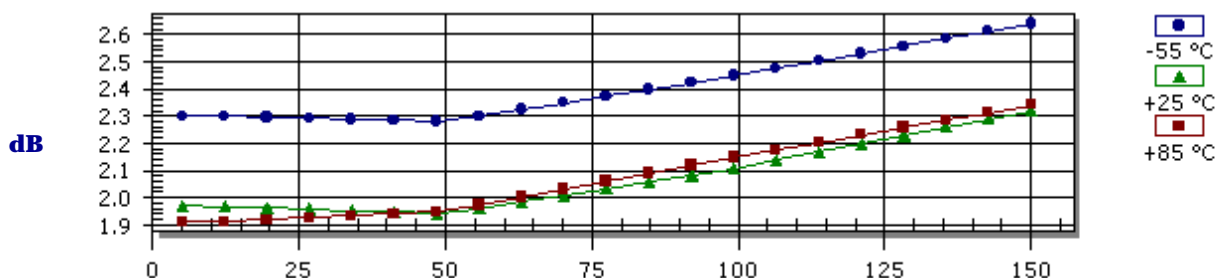
#### SM-11 (Surface Mount)



### Gain



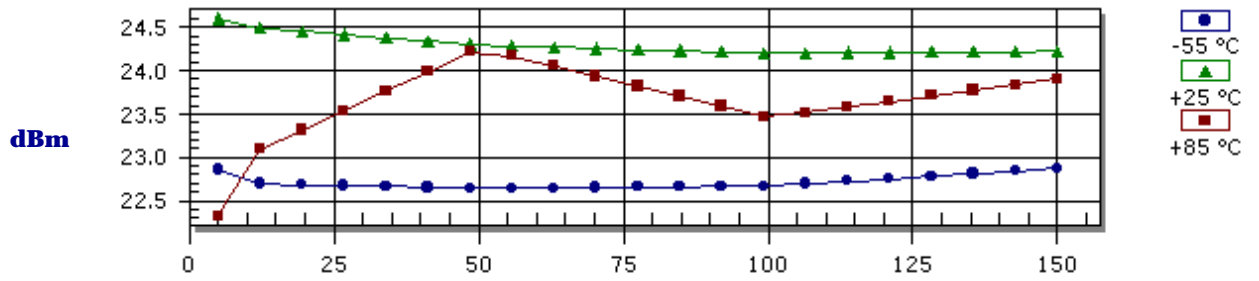
### Noise Figure



- Products
- Amplifiers
- VCOs
- Limiting Amplifiers
- Switches
- Linearizers
- Limiters
- Analog Attenuators
- Digital Attenuators
- Detectors

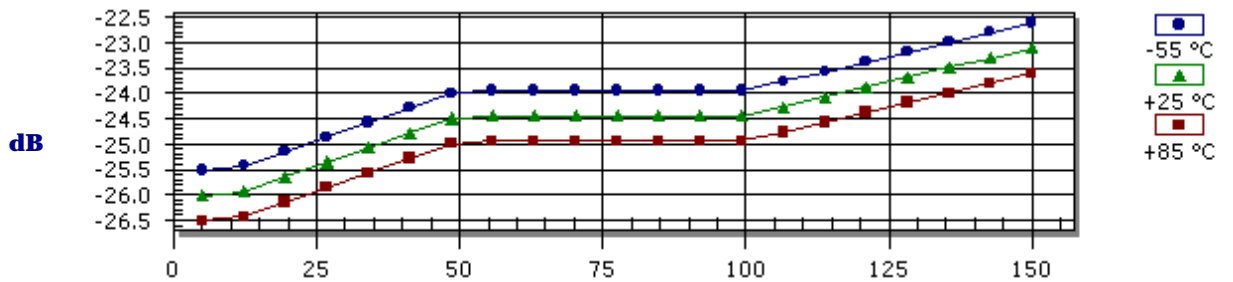
Frequency (MHz)

### $P_{1dB}$ Compression Point



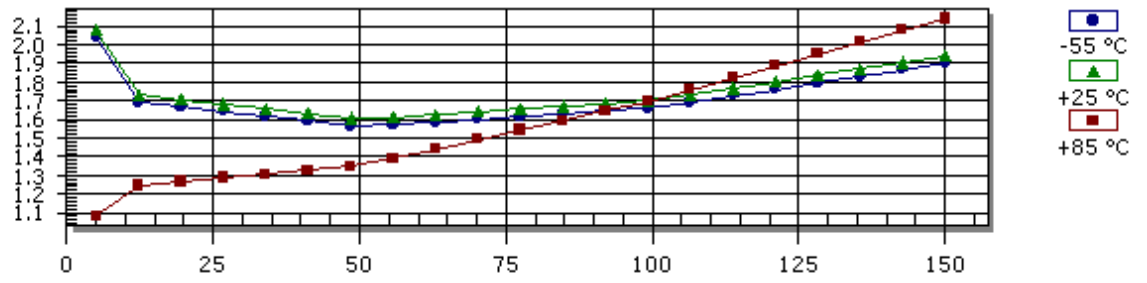
Frequency (MHz)

### Reverse Isolation



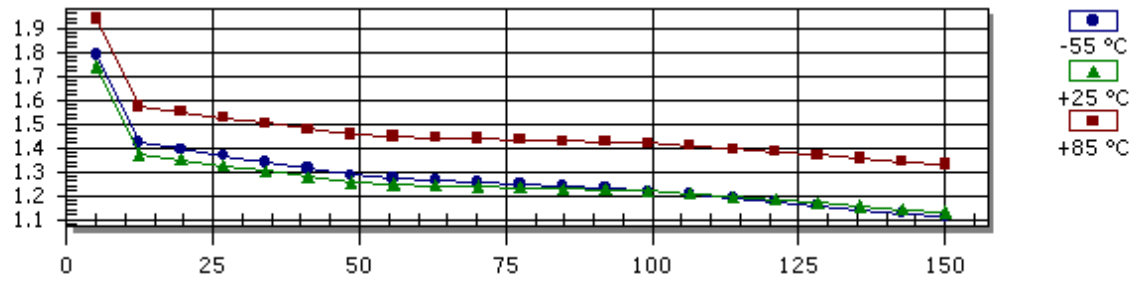
Frequency (MHz)

### 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       | 0.350   | -32.00  | 10.280  | -157.00 | 0.050   | -159.00 | 0.270   | -27.00  |
| 10.0      | 0.270   | -28.00  | 10.950  | -171.00 | 0.050   | -174.00 | 0.160   | -32.00  |
| 50.0      | 0.230   | -36.00  | 11.120  | 162.00  | 0.060   | 151.00  | 0.110   | -3.00   |
| 100.0     | 0.260   | -68.00  | 11.100  | 139.00  | 0.060   | 127.00  | 0.100   | -10.00  |
| 150.0     | 0.320   | -106.00 | 10.870  | 115.00  | 0.070   | 103.00  | 0.060   | -29.00  |

## 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<br>(1 minute max) | 50.0 mW          |
| Maximum Peak Power<br>(3 µsec max) | 0.5 W            |   |                  |

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