

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

## PN9771 / SPN9771\*

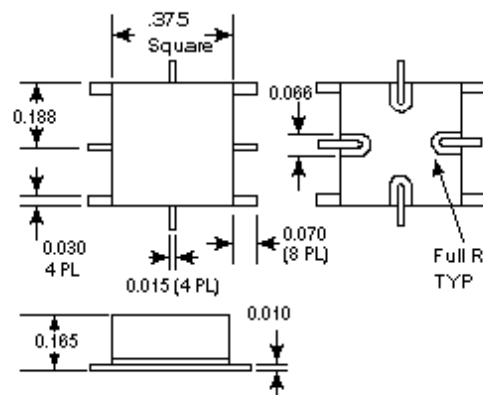
\* Part number for additional environmental screening.

### Performance Data

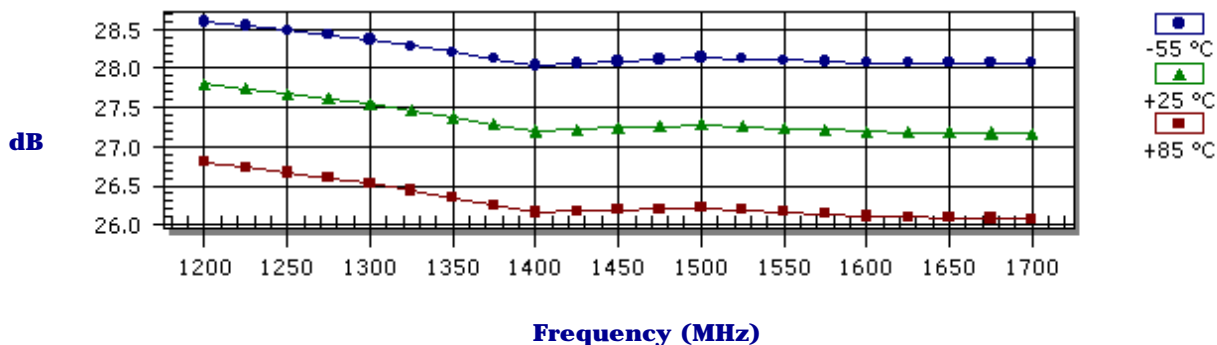
Frequency	1200.0 - 1700.0 MHz
Gain	27.0 dB Typical 25.0 dB Min
Noise Figure	1.0 dB Typical 1.8 dB Max
P <sub>1dB</sub>	15.0 dBm Typical 14.0 dBm Min
3 <sup>rd</sup> Order Intercept	26.0 dBm Typical
2 <sup>nd</sup> Order Intercept	40.0 dBm Typical
VSWR	1.8/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-38.0 dB Typical -36.0 dB Min
Power Supply	15.0 Volts 60.0 mA
Operating Temperature	-55.0 - 85.0 °C

### Package Drawing

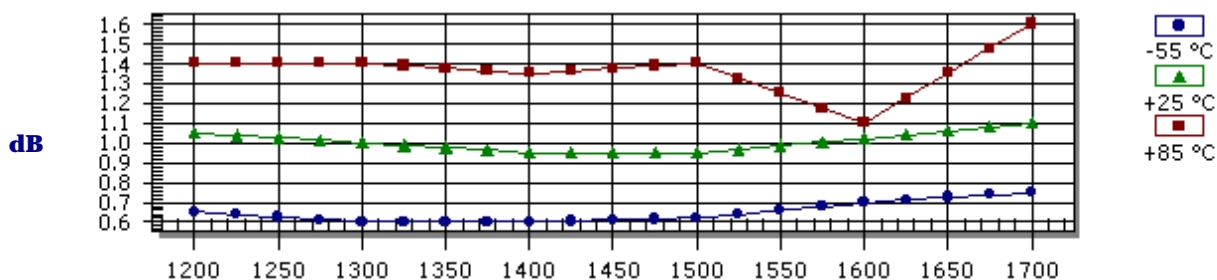
#### SM-11 (Surface Mount)



### Gain



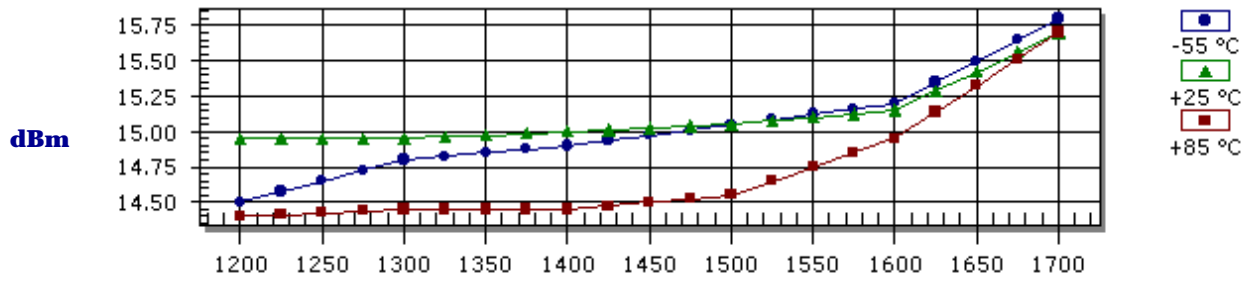
### Noise Figure



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

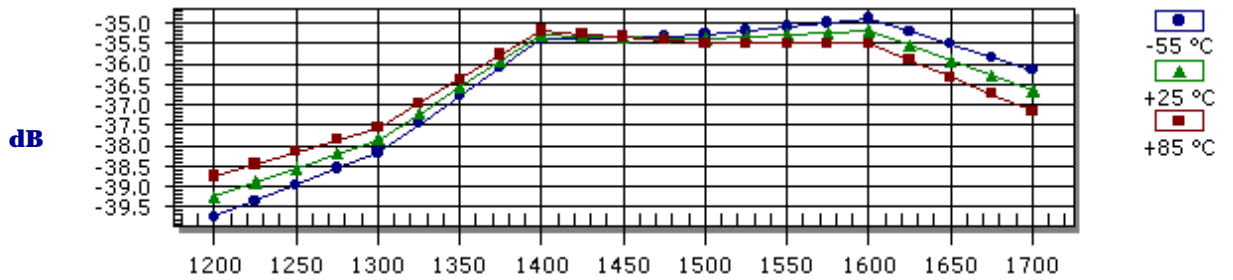
Frequency (MHz)

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



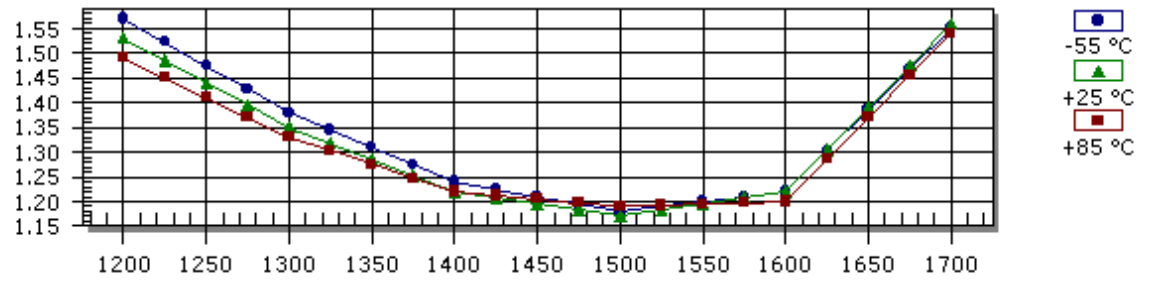
Frequency (MHz)

### Reverse Isolation



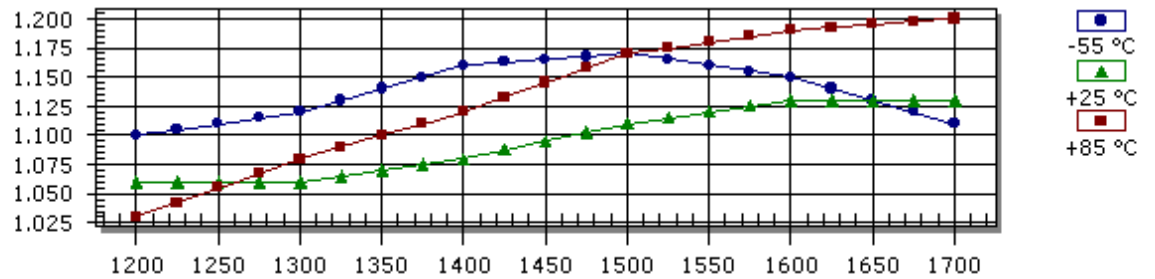
Frequency (MHz)

### 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
1200.0	0.210	57.00	24.560	-163.00	0.011	118.00	0.030	-4.00
1300.0	0.150	52.00	23.860	171.00	0.013	96.00	0.030	-37.00
1400.0	0.100	51.00	22.900	146.00	0.017	79.00	0.040	-69.00
1500.0	0.080	36.00	23.130	121.00	0.017	54.00	0.050	-101.00
1600.0	0.100	11.00	22.890	93.00	0.017	32.00	0.060	-128.00
1700.0	0.220	-28.00	22.820	61.00	0.015	-5.00	0.060	-164.00

## 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)	200.0 mW
Maximum Peak Power (3 µsec max)	0.5 W		

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