

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

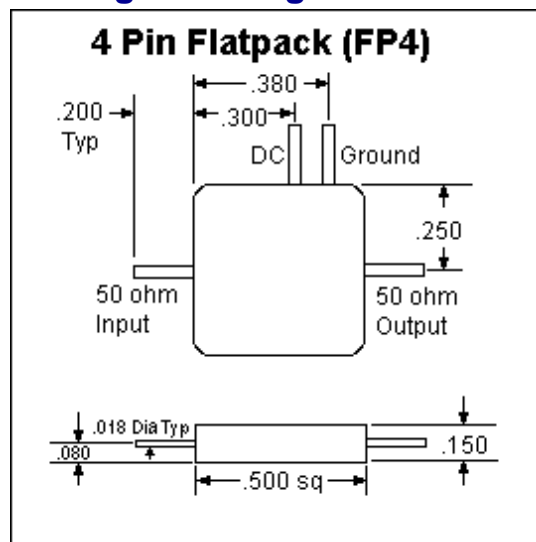
## FP9163 / SP9163\*

\* Part number for additional environmental screening.

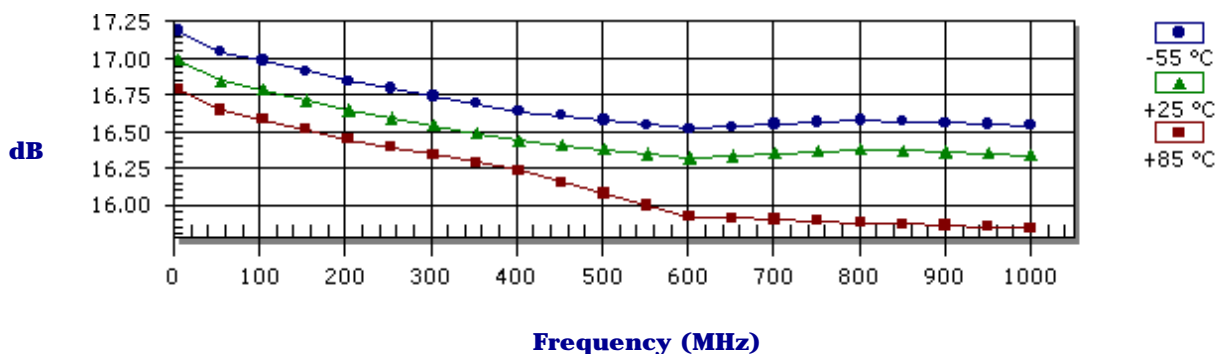
### Performance Data

Frequency	5.0 - 1000.0 MHz
Gain	16.0 dB Typical 15.0 dB Min
Noise Figure	2.5 dB Typical 3.5 dB Max
P <sub>1dB</sub>	5.0 dBm Typical 3.0 dBm Min
3 <sup>rd</sup> Order Intercept	16.0 dBm Typical
2 <sup>nd</sup> Order Intercept	21.0 dBm Typical
VSWR	1.2/2.0 Input Typ/Max 1.5/2.0 Output Typ/Max
Reverse Isolation	-18.0 dB Typical -17.0 dB Min
Power Supply	15.0 Volts 14.0 mA
Operating Temperature	-55.0 - 85.0 °C

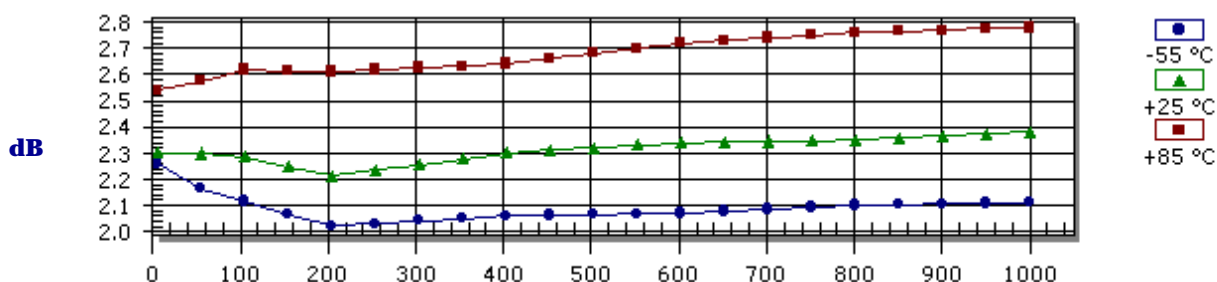
### Package Drawing



### Gain



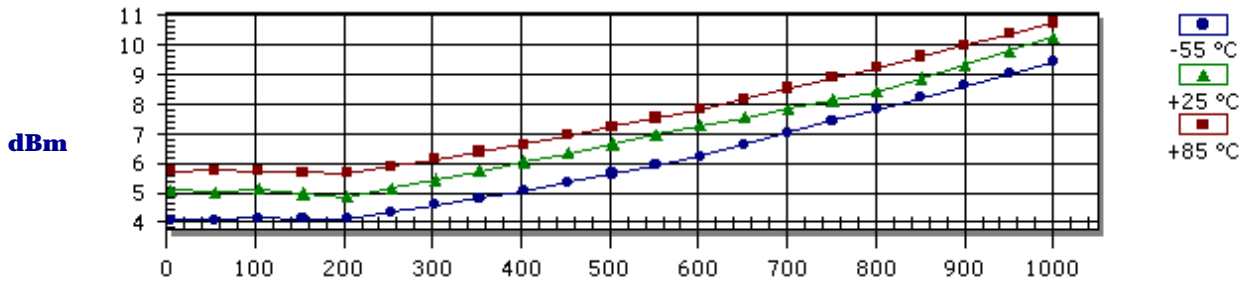
### Noise Figure



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

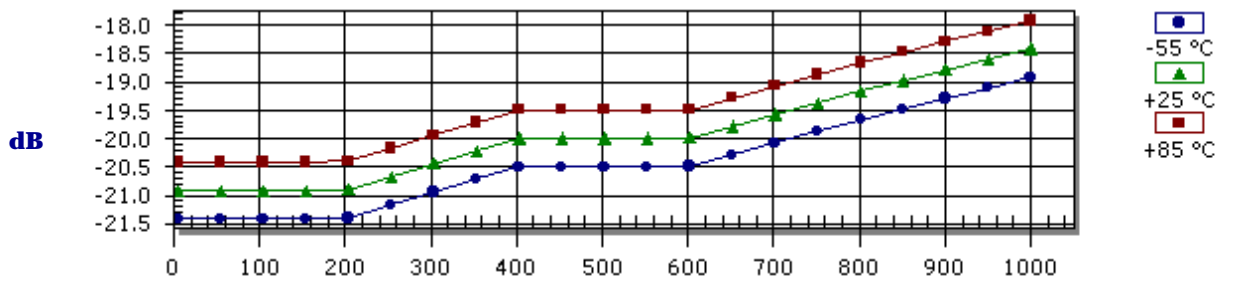
Frequency (MHz)

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



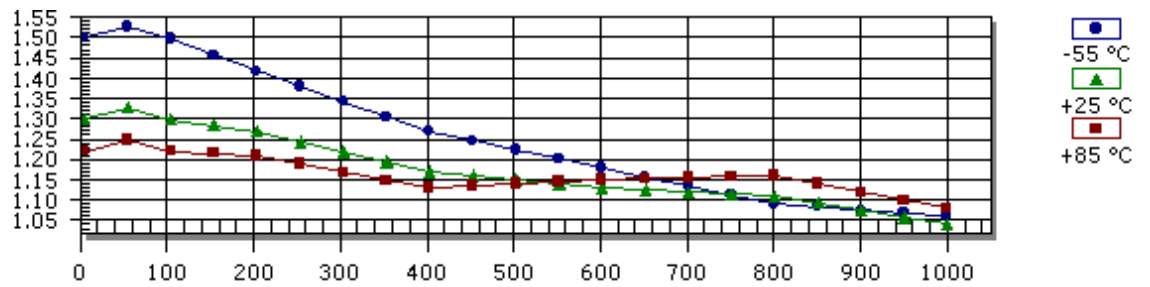
Frequency (MHz)

### Reverse Isolation



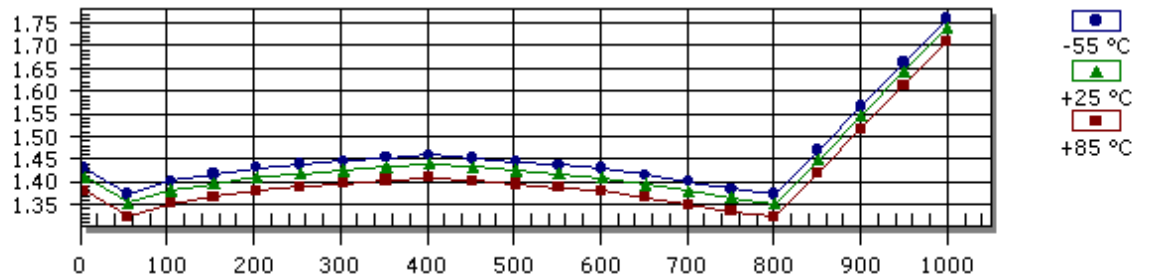
Frequency (MHz)

### 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	0.130	-173.00	7.070	-177.00	0.090	4.00	0.170	-176.00
50.0	0.140	177.00	6.960	171.00	0.090	-1.00	0.150	167.00
100.0	0.130	173.00	6.910	163.00	0.090	0.00	0.160	153.00
200.0	0.120	166.00	6.800	146.00	0.090	-4.00	0.170	128.00
400.0	0.080	161.00	6.640	113.00	0.100	-11.00	0.180	91.00
600.0	0.060	173.00	6.550	80.00	0.100	-18.00	0.170	69.00
800.0	0.050	174.00	6.590	45.00	0.110	-25.00	0.150	73.00
1000.0	0.020	75.00	6.560	3.00	0.120	-36.00	0.270	86.00

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

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## HTML Pages converted to PDF Document

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