

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

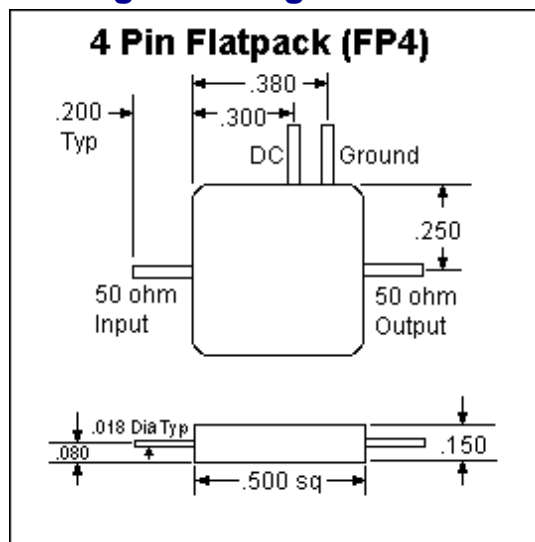
## FP7103 / SP7103\*

\* Part number for additional environmental screening.

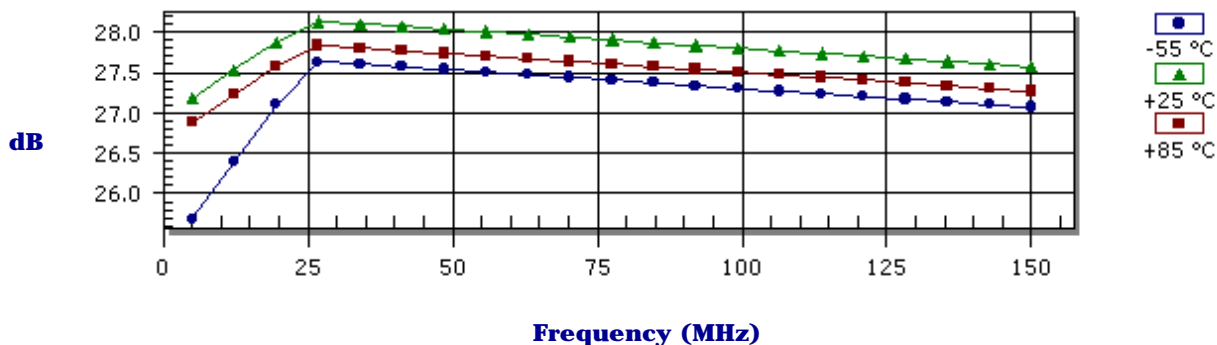
### Performance Data

Frequency	10.0 - 150.0 MHz
Gain	26.5 dB Typical 25.0 dB Min
Noise Figure	2.3 dB Typical 2.8 dB Max
P <sub>1dB</sub>	9.5 dBm Typical 8.0 dBm Min
3 <sup>rd</sup> Order Intercept	23.0 dBm Typical
2 <sup>nd</sup> Order Intercept	28.0 dBm Typical
VSWR	1.4/2.0 Input Typ/Max 1.4/2.0 Output Typ/Max
Reverse Isolation	-31.0 dB Typical -30.0 dB Min
Power Supply	5.0 Volts 15.5 mA
Operating Temperature	-55.0 - 85.0 °C

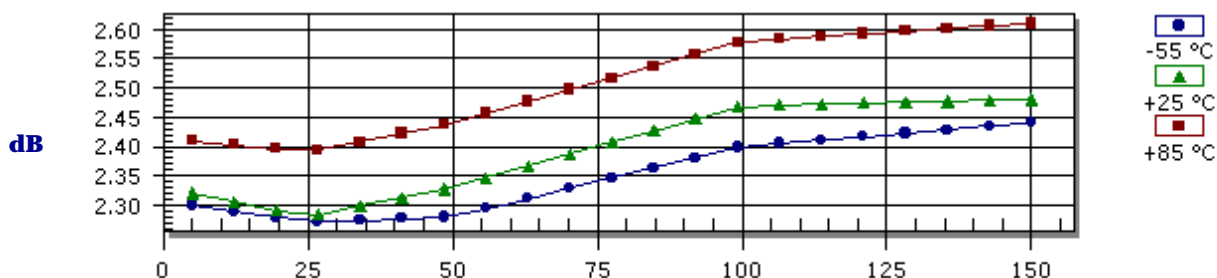
### Package Drawing



### Gain



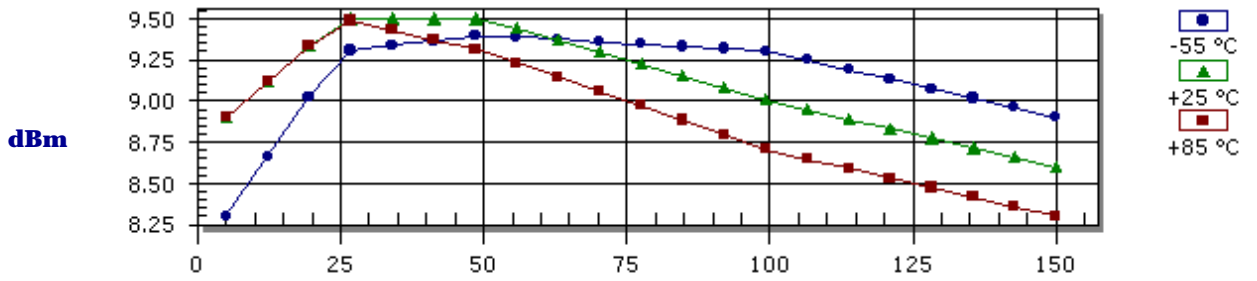
### Noise Figure



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

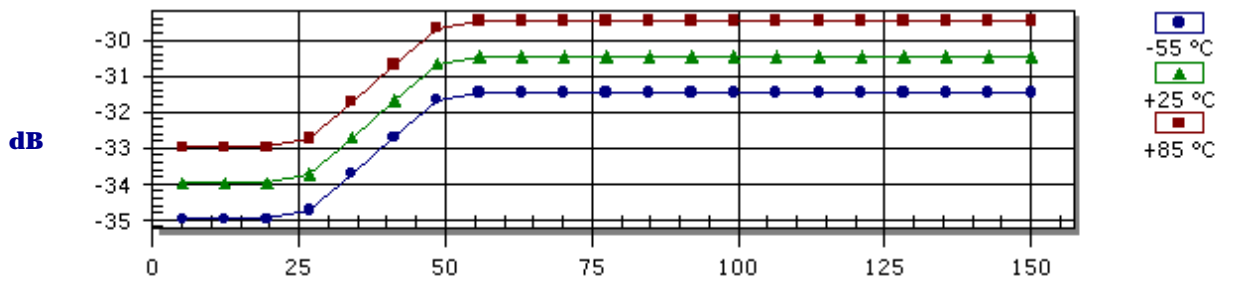
Frequency (MHz)

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



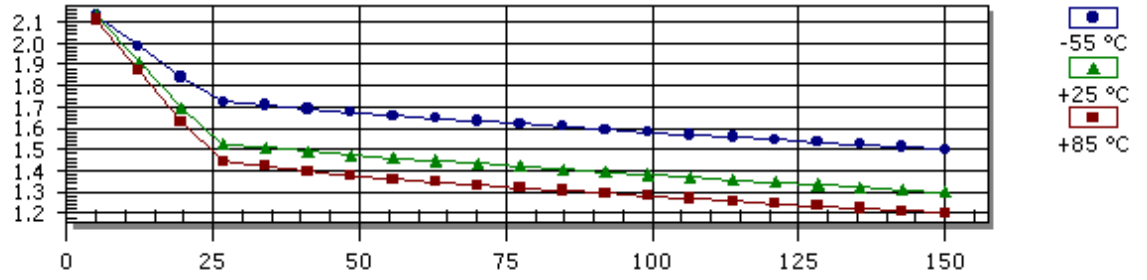
Frequency (MHz)

### Reverse Isolation



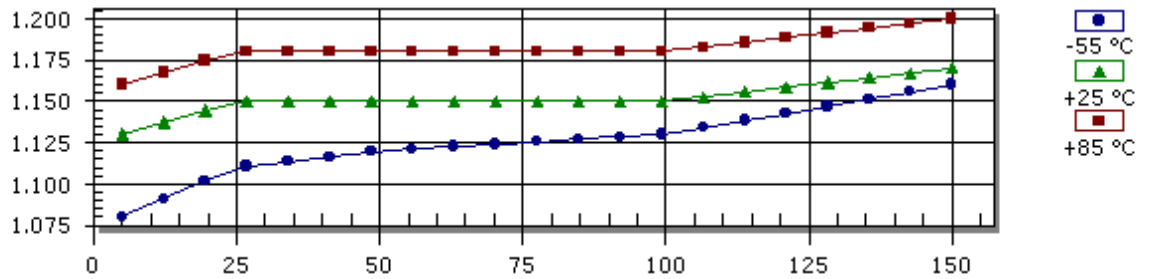
Frequency (MHz)

### 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	0.360	-97.00	22.850	-152.00	0.020	5.00	0.060	91.00
25.0	0.210	-169.00	25.530	171.00	0.020	1.00	0.070	23.00
50.0	0.190	162.00	25.210	153.00	0.030	2.00	0.070	16.00
100.0	0.160	124.00	24.550	123.00	0.030	-5.00	0.070	15.00
150.0	0.130	83.00	23.900	94.00	0.030	-13.00	0.080	20.00

## 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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