

# "High Frequency Ceramic Solutions"

## UWB (3.1 - 7.16 GHz) Band Pass Filter

P/N 5130BP18U4060

Detail Specification: 02/14/06

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### General Specifications

Part Number	5130BP18U4060
Frequency (MHz)	3100 - 7160
Attenuation (min.)	25 dB @ 824 -960 MHz
Attenuation (min.)	25 dB @ 1710 - 1990 MHz
Attenuation (min.)	15 dB @ 2400 -2500 MHz
Attenuation (min.)	20 dB @ 10100 - 10600 MHz

Insertion Loss	1.6 dB max.
Return Loss	9.5 dB min.
Impedance	50 Ω
Input Power	500 mW max.
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Reel Quantity	3,000

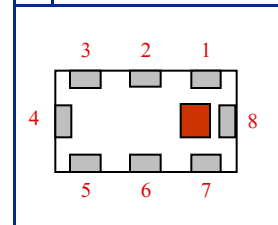
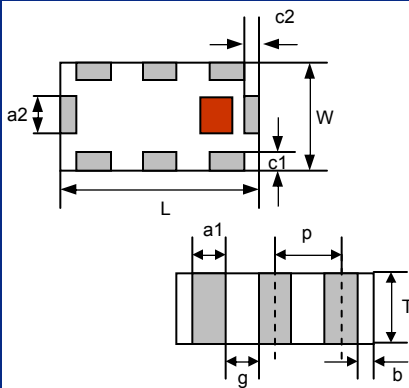
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 5130BP18U4060S
		T & R	Suffix = E	Eg. 5130BP18U4060E
	Termination Style	100% Tin	Suffix = None	Eg. 5130BP18U4060(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 5130BP18U4060(E or S)/Pb

### Terminal Configuration

No.	Function
1	GND
2	GND
3	GND
4	I/O
5	GND
6	GND
7	GND
8	I/O

### Mechanical Dimensions

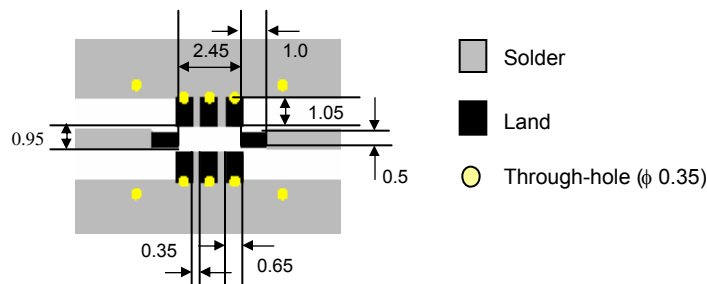
	In	mm
L	0.126 ± 0.006	3.20 ± 0.15
W	0.063 ± 0.006	1.60 ± 0.15
T	0.037 ± 0.004	0.95 ± 0.10
a1	0.022 ± 0.006	0.55 ± 0.15
a2	0.020 ± 0.006	0.50 ± 0.15
b	0.012 +.004/-0.008	0.30 +0.1/-0.2
c1	0.012 ± 0.006	0.30 ± 0.15
c2	0.012 ± 0.008	0.30 ± 0.20
g	0.016 ± 0.006	0.40 ± 0.15
p	0.039 ± 0.004	1.00 ± 0.10



### Mounting Considerations

Mount these devices with brown mark facing up.

\* Line width should be designed to provide 50 ohm impedance, depending on PCB material and thickness



Units: mm

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[www.johansontechnology.com](http://www.johansontechnology.com)

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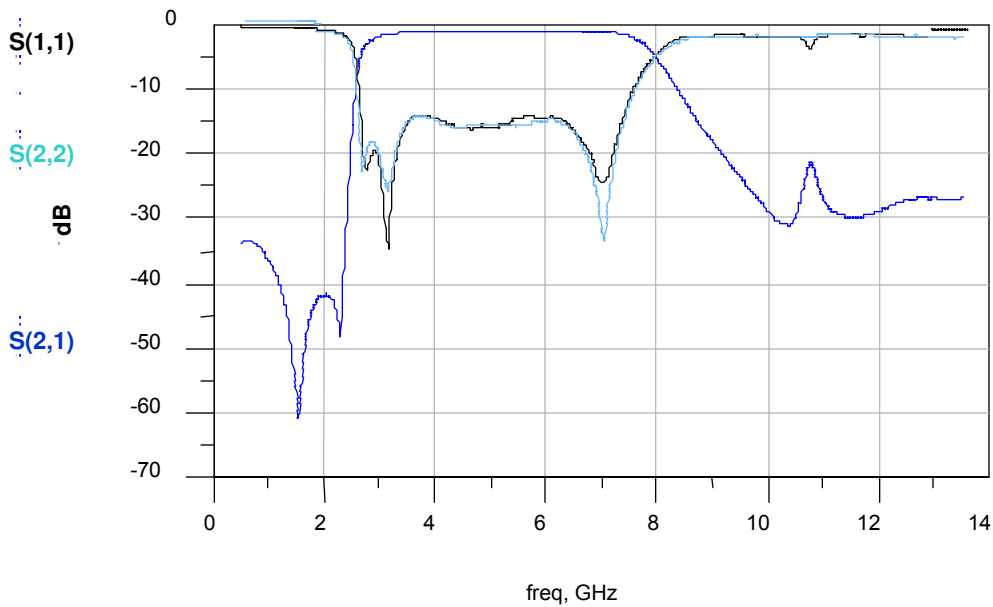
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## Typical Electrical Performance (T=25°C)



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