

## Dielectric Ceramic Filter Specification

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### SPECIFICATIONS

1	Center Frequency (fo)	a1	1960 MHz
2	0.5 dB Pass Band Width	b1	Fo +/- 31 MHz
3	Insertion Loss                      in fo	c1	2.3 dB max
4	Ripple                                      in PB	d1	0.7 dB max
5	Attenuation	Fo – 80MHz	e1                      20 dB min
		Fo + 80MHz	f1                      20 dB min
			g1                      dB min
			h1                      dB min
6	Return Loss                      in PB	i1	14 dB min
7	Impedance		50Ω
8	Maximum Input Power		1 W (+30dBm)
9	Group Delay Time                      in PB		Ns max
10	Operating Temperature Range		-20 - +70 degree(°C)

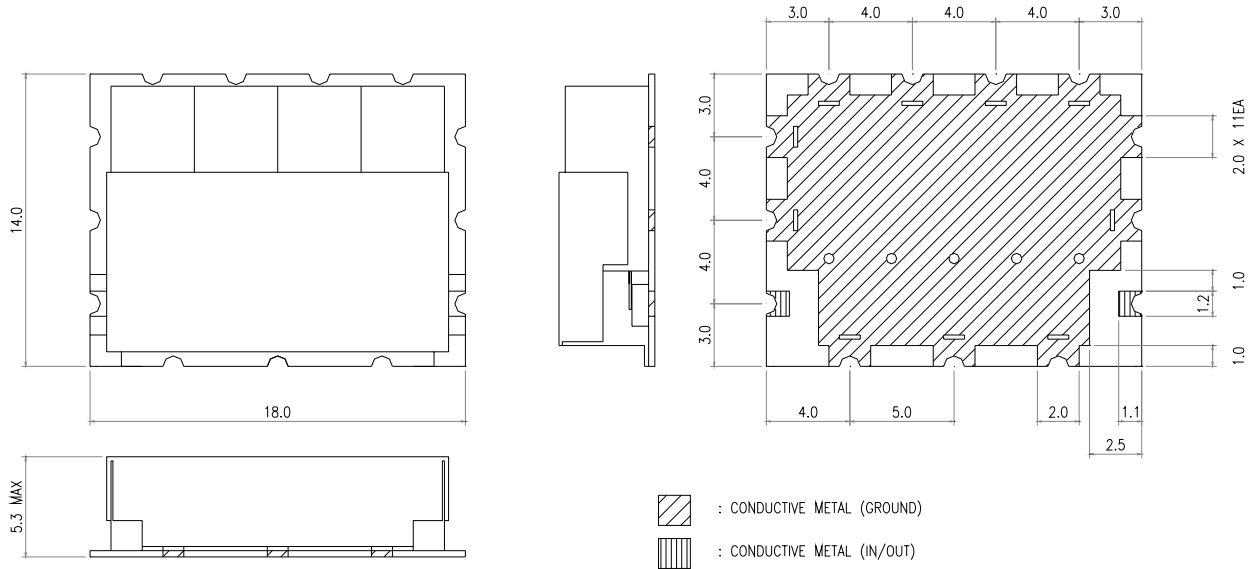
### ***Filtronetics, Inc***

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**Part Number: CF-4**  
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## DIMENSIONS

UNIT : mm



### 1. PCB

- 1) MATERIAL : FR-4
- 2) TERMINALS : Gold PLATED

### 2. CASE

- 1) MATERIAL : Sn/Pb OR Ni PLATED

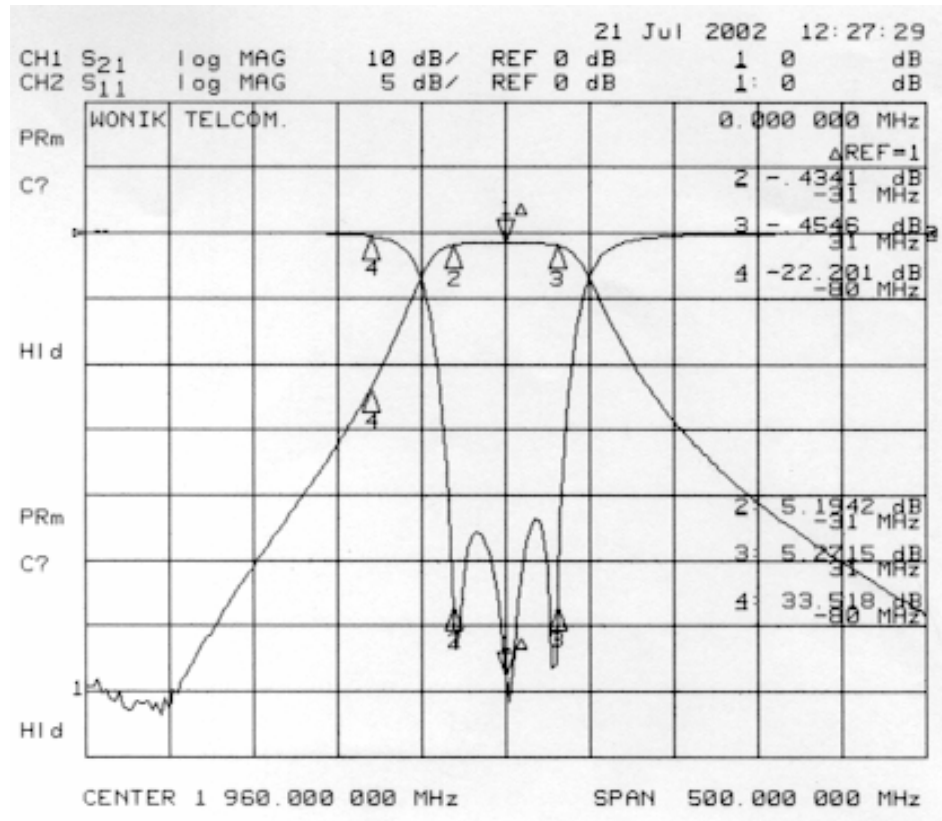
### 3. RESONATOR

- 1) COATING MATERIAL : Ag

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## Pass Band and Return Loss



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## RELIABILITY TEST AND CONDITIONS

ITEM	TEST CONDITIONS	REQUIREMENTS
Operating Temp .Range		- 20 °C ~ + 75 °C
Resistance to solder heat	Preheat temperature : 120 to 150 °C Preheat time : 1 to 1.5 min Solder temperature : 260 +/- 10 °C Dipping time : 10 +/- 0.5 sec	No damage such as cracks should Be caused in chip element.
Solderability	Preheat temperature : 120 to 150 °C Preheat time : 1 to 1.5 min Solder temperature : 235 +/- 5 °C Dipping time : 5 +/- 1 sec	More than 80% of the terminal electrode shall be covered with new solder
Heat resistance (High temperature load)	Temperature : 75 +/- 2 °C Applied voltage : Rated voltage Applied current : Rated current Recovery : 1 to 2hrs of recovery under the standard condition after the removal from test chamber.	No mechanical damage. After test, the device shall satisfy the specification in section 3.
Thermal shock (Temperature cycle)	Conditions for 1 cycle / Step 1 : + 75 °C 15 min Step 2 : - 20 °C 15 min Number of cycle : 10	No mechanical damage. After test, the device shall satisfy the specification in section 3.
Humidity resistance	Temperature : 40 +/- 2 °C Humidity : 90 to 95% RH Duration : 96 +/- 5 hrs Recovery : 1 to 2hrs of recovery under the standard condition after the removal from test chamber.	No mechanical damage. After test, the device shall satisfy the specification in section 3.
Vibration	Frequency : 10 ~ 50 Hz Amplitude : 1.52mm ( 0.060 inches) Direction and time : X, Y and Z Directions for 30 min each.	No mechanical damage. After test, the device shall satisfy the specification in section 3.

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