

# **SPECIFICATION**

## **COMMERCIALLY AVAILABLE**

**CERAMIC BAND PASS**  
**PART NUMBER: CF-12005005A**

<b>ISSUED / REVISION</b>	<b>ENGINEER APPROVED</b>	<b>DOCUMENT CHECKED</b>	<b>DRAFTSMAN</b>	<b>DOCUMENT CHECKED</b>
6/22/17 <sup>(kn)</sup>				

***FILTRONETICS Inc***

### 1. APPLICATION

THIS SPECIFICATION APPLIES TO A BAND PASS FILTER, USING DIELECTRIC RESONATORS.

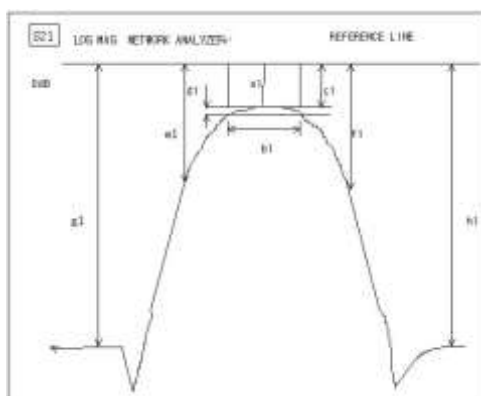
### 2. PART NUMBER:

PART NO	CF-12005005A
PACKAGING	PLASTIC TRAY

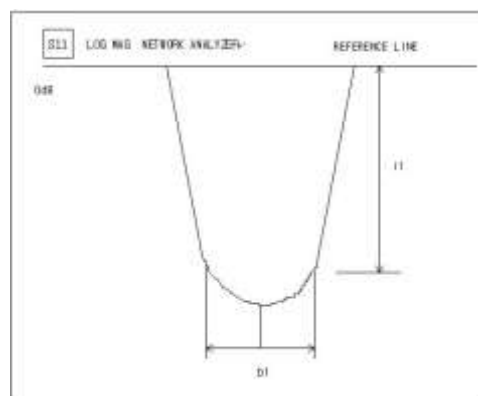
### 3. SPECIFICATIONS:

NO	ITEMS	Ref.	SPECIFICATION
1	Center Frequency (Fo)	-	1200 MHz
2	Pass Band Width (PB)	-	Fo+/-250 MHz (952~1450Mhz)
3	Insertion Loss AT Fo	-	3.0 dB Max
4	Attenuation [Absolute Value]	At 600MHz	25 dB Min
		At 2250MHz	20 dB Min
5	Return Loss at Fo+/-250 MHz		8 dB Min
6	Impedance	-	50Ω
7	Maximum Input Power	-	1 W (+30dBm)
8	Operating Temperature Range	-	-30 - +60°C

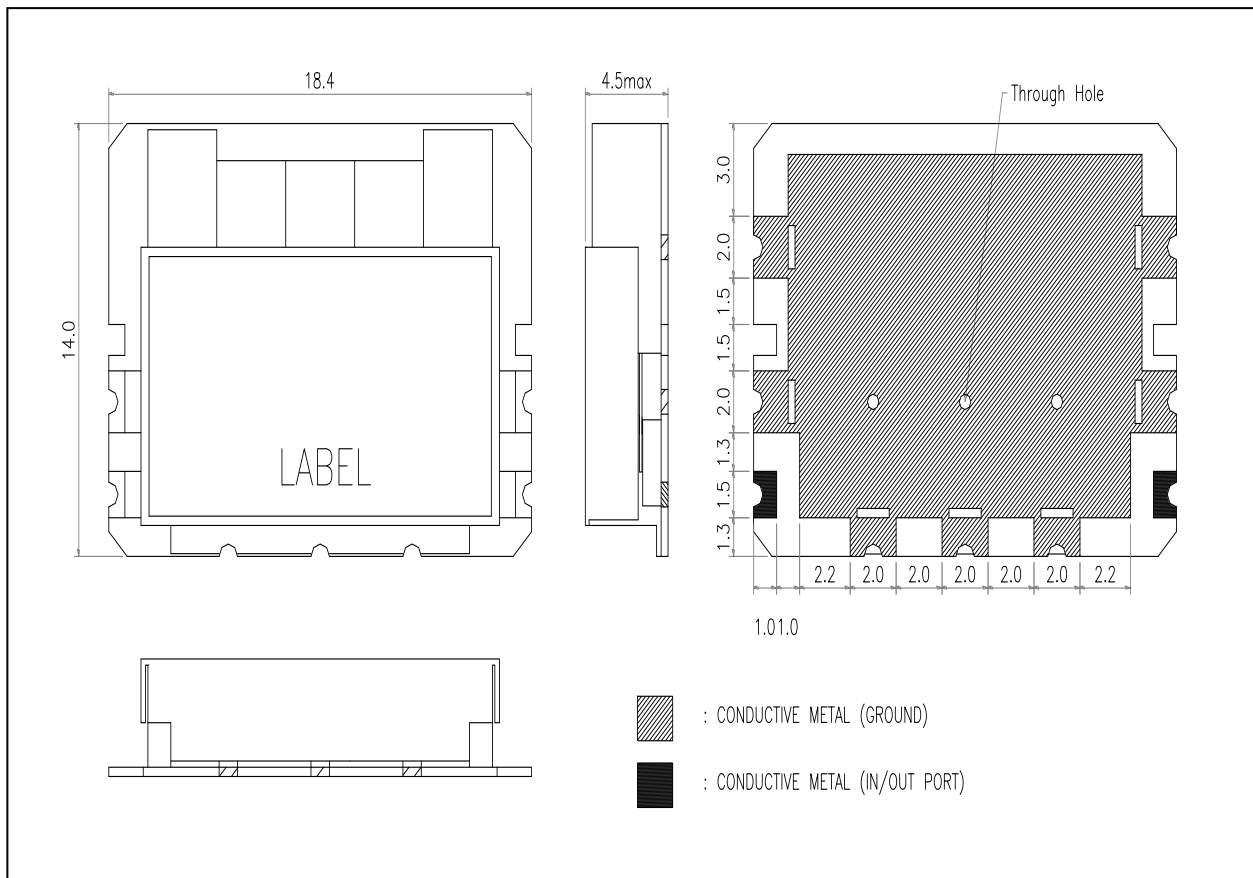
**S21 LOG MAG NETWORK ANALYZER**



**S11 LOG MAG NETWORK ANALYZER**



4. DIMENSIONS:



**MATERIAL SPECIFICATION**

1. PCB
  - 1) MATERIAL: FR4
  - 2) TERMINALS: Au PLATED
2. METAL CASE
  - 1) MATERIAL: Sn OR Ag PLATED
3. RESONATOR
  - 1) COATING MATERIAL: Ag
  - 2) DIMENSION: 3MM x 3MM

**MARKING**

PART NO  
 FILTRONETICS

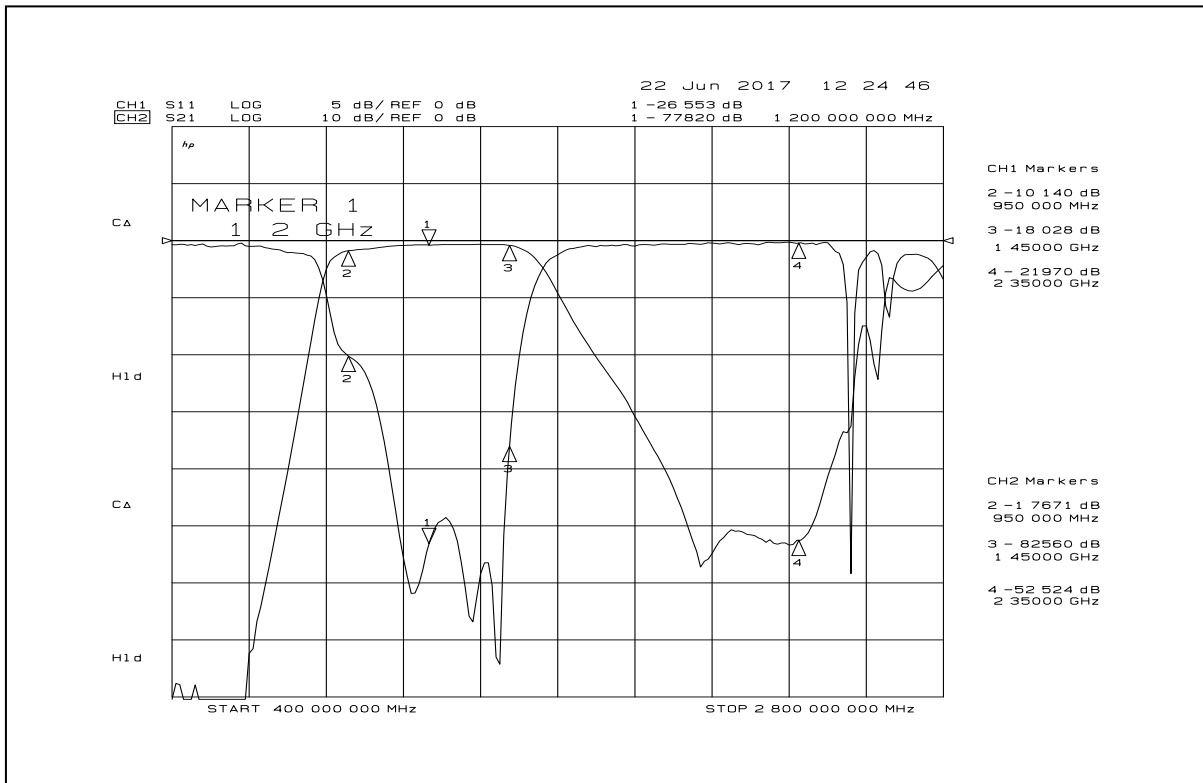
UNIT:MM  
 TOLERANCE: +/-0.5MM  
 IN/OUT LAND:+/-0.3MM

● **CAUTIONS:**

1. When handling products, be careful not to damage the outer-electrode.
2. When handling products be careful not to touch the outer-electrode with bare hands or solderability is reduced.
3. Do not apply excessive pressure or shock to product in handling or in transportation or damage to the ceramic filters may result.

5. SIMULATION GRAPH:

S21 vs S11 (INSERTION LOSS, RETURN LOSS,)



S21 (ATTENUATION)

