

SPECIFICATION

COMMERCIALLY AVAILABLE

CERAMIC BAND PASS
PART NUMBER: CF-18005005
RoHS

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN	DOCUMENT CHECKED
10/30/15 ^(kn)				

FILTRONETICS Inc

1. APPLICATION

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

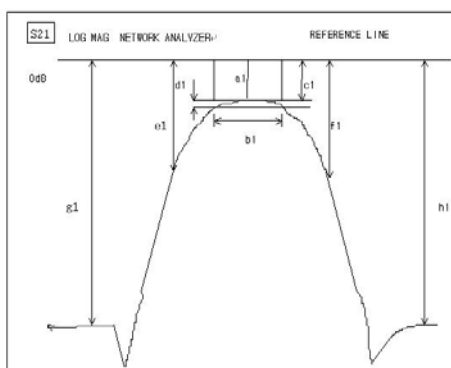
2. PART NUMBER:

PART NO	CF-18005005
PACKAGING	PLASTIC TRAY

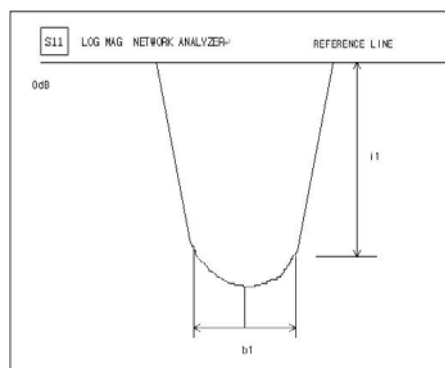
3. SPECIFICATIONS:

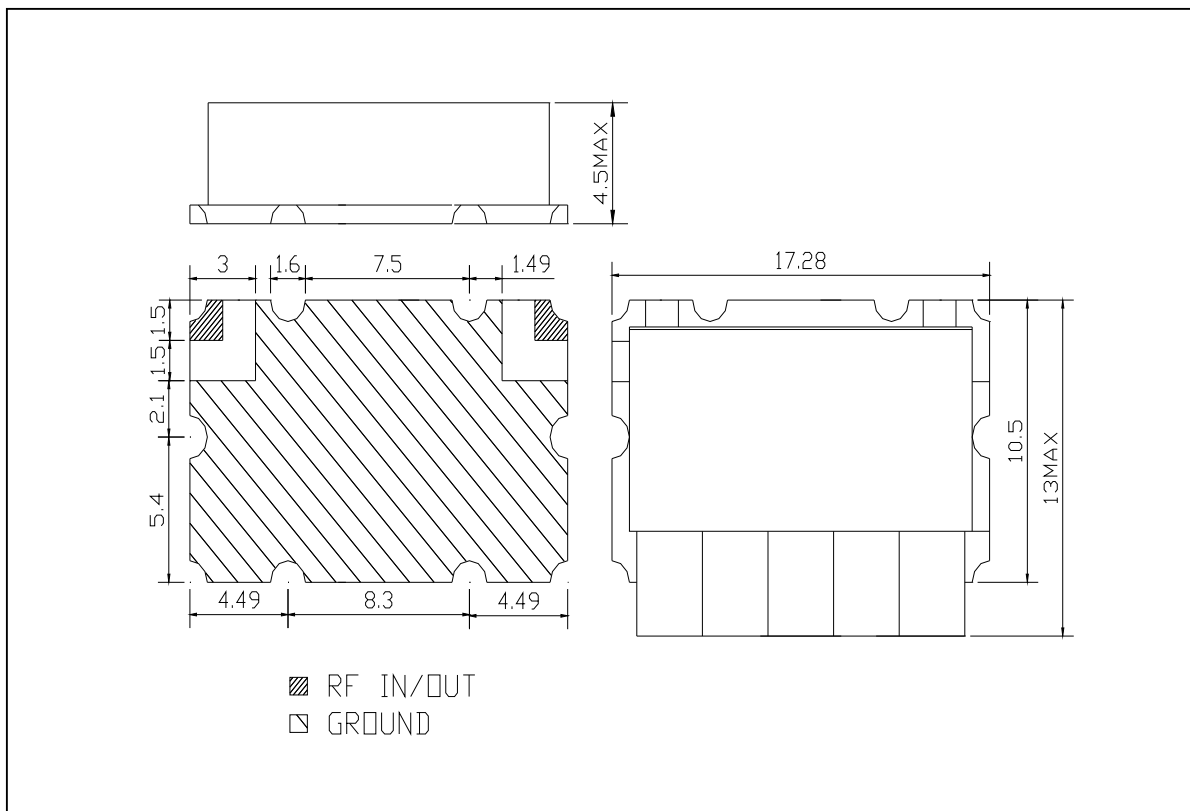
NO	ITEMS	Ref.	SPECIFICATION
1	Center Frequency (Fo)	a1	1800 MHz
2	Pass Band Width (=PB)	b1	Fo+/-250MHz
3	Insertion Loss AT Fo	a1	2.0 dB Max
4	Ripple at Fo+/-250MHz	-	1.0dB Max
5	Return Loss at Fo+/-250MHz	-	10dB Min
6	Attenuation [absolute value]	At 1250 MHz	49 dB Min
		At 2350 MHz	27 dB Min
7	Group Delay Variation IN PB		4nsec Max
8	Impedance	-	50Ω
9	Maximum Input Power	-	1 W (+30dBm)
10	Operating Temperature Range	-	-30 ~ +75°C

S21 LOG MAG NETWORK ANALYZER



S11 LOG MAG NETWORK ANALYZER



4. DIMENSIONS:**MATERIAL SPECIFICATION**

1. PCB
 - 1) MATERIAL: FR4
 - 2) TERMINALS: Au PLATED
1. METAL CASE
 - 1) COVER MATERIAL: Brass (Sn OR Ni PLATED)
2. RESONATOR : Dielectric Resonator
 - 1) COATING MATERIAL: Ag
 - 2) Number of Poles : 5 Poles
3. ROHS Compliant.

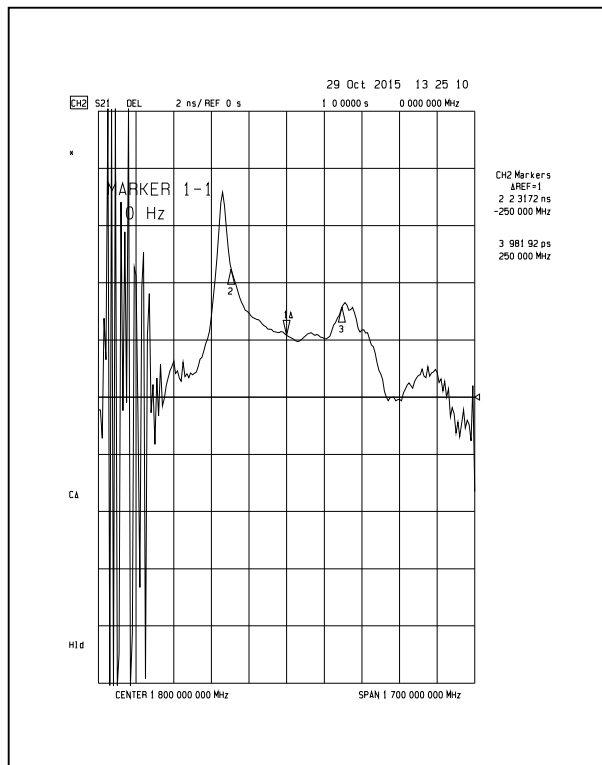
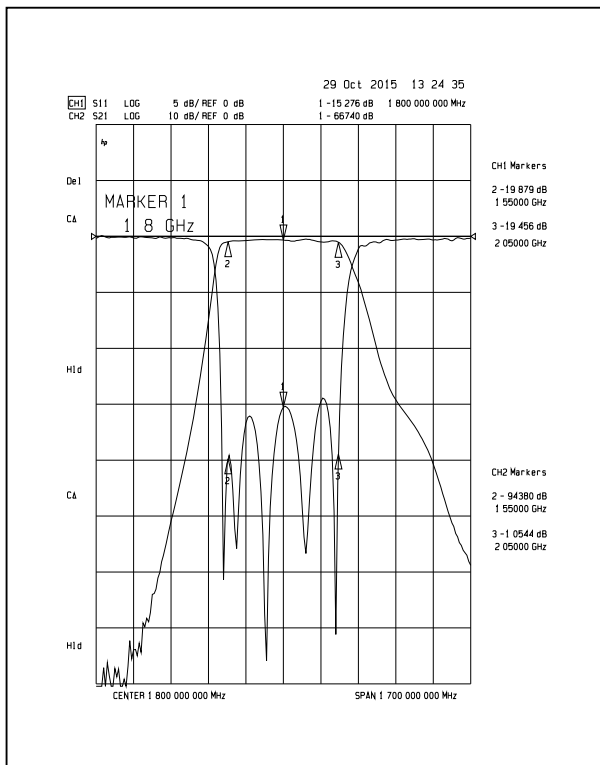
MARKING

Part No
Filtronetics
Data Code

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:**S21 vs S11 (INSERTION LOSS, RETURN LOSS, ATTENUATION)****S21 (1dB BAND WIDTH, OUT BAND ATTENUATION)**