

SPECIFICATION

COMMERCIALLY AVAILABLE

CERAMIC BAND PASS
PART NUMBER: CF-22501008A
RoHS

Also available as SMA
 See FNP-1412

Revised 01/20/2020 – To add ground footprint note

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN	DOCUMENT CHECKED
3/29/16 ^(kn)				
01/20/2020 ^(ASM)				

FILTRONETICS Inc

1. APPLICATION

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

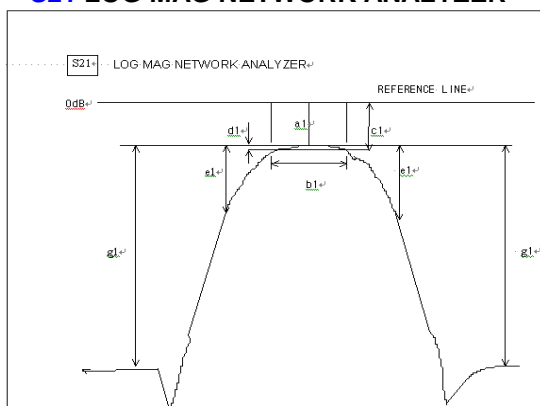
2. PART NUMBER:

PART NO	CF-22501008A
PACKAGING	PLASTIC TRAY

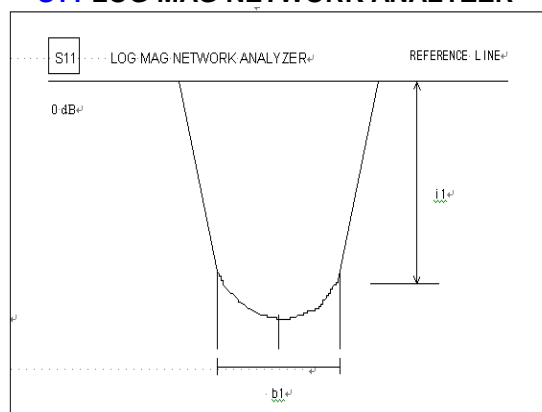
3. SPECIFICATIONS:

NO	ITEMS	Ref.	SPECIFICATION
1	Center Frequency (Fo)	-	2250 MHz
2	Pass Band Width(=PB)	-	2200~2300 MHz
3	Insertion Loss AT Fo	-	3.5 dB Max
4	Ripple IN PB	-	3.0 dB Max
5	Attenuation [Absolute Value]	At 2160MHz	35 dB Min
		At 2340MHz	35 dB Min
6	Return Loss IN PB	-	12 dB Min
7	Group Delay Variation IN PB	-	12 nsec Max
8	Impedance	-	50Ω
9	Maximum Input Power	-	1 W (+30dBm)
10	Operating Temperature Range	-	-30 - +75°C

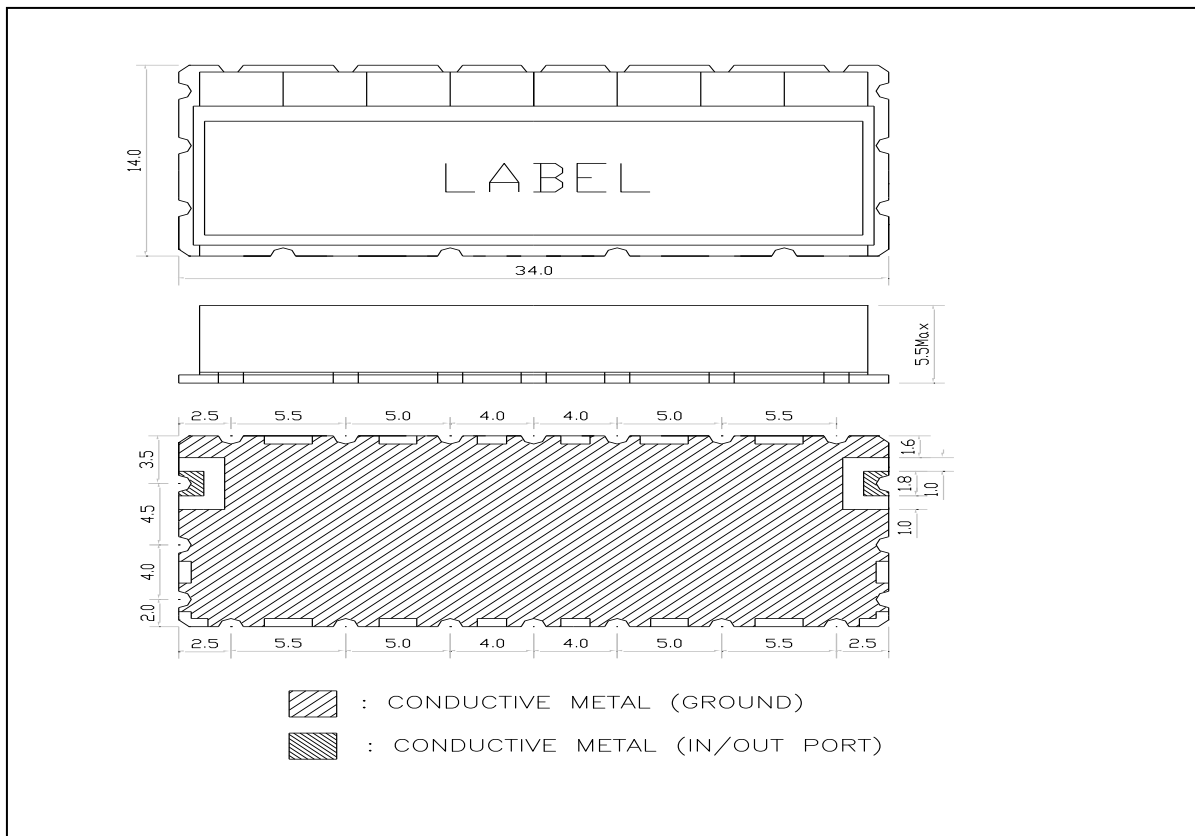
S21 LOG MAG NETWORK ANALYZER



S11 LOG MAG NETWORK ANALYZER



4. DIMENSIONS:



MATERIAL SPECIFICATION

1. PCB
 - 2) MATERIAL: FR4
 - 3) TERMINALS: Au PLATED
2. METAL CASE
 - 1) COVER MATERIAL: Brass (Sn OR Ni PLATED)
3. RESONATOR : Dielectric Resonator
 - 1) COATING MATERIAL: Ag
 - 2) Number of Poles : 8 Poles
4. ROHS Compliant.

The number of through holes may be changed without notice.

MARKING

Part No
 Filtronetics Inc
 Date Code

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

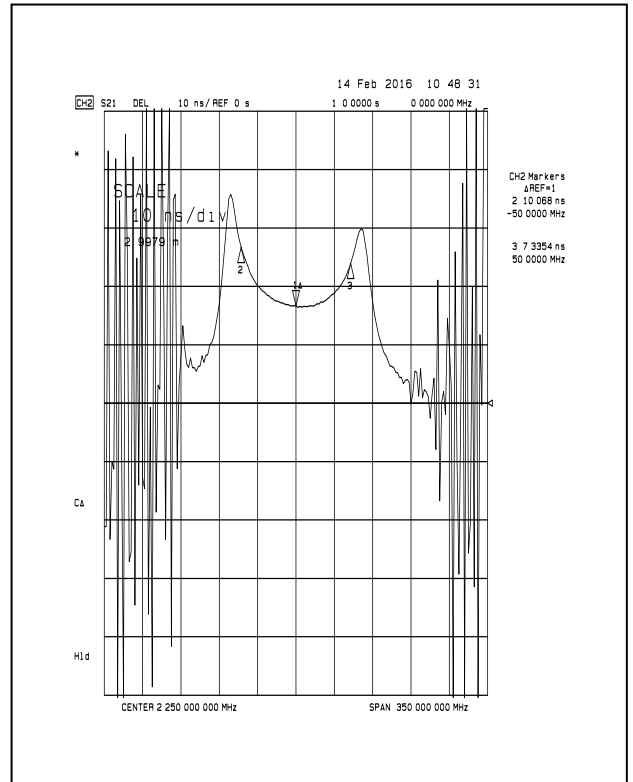
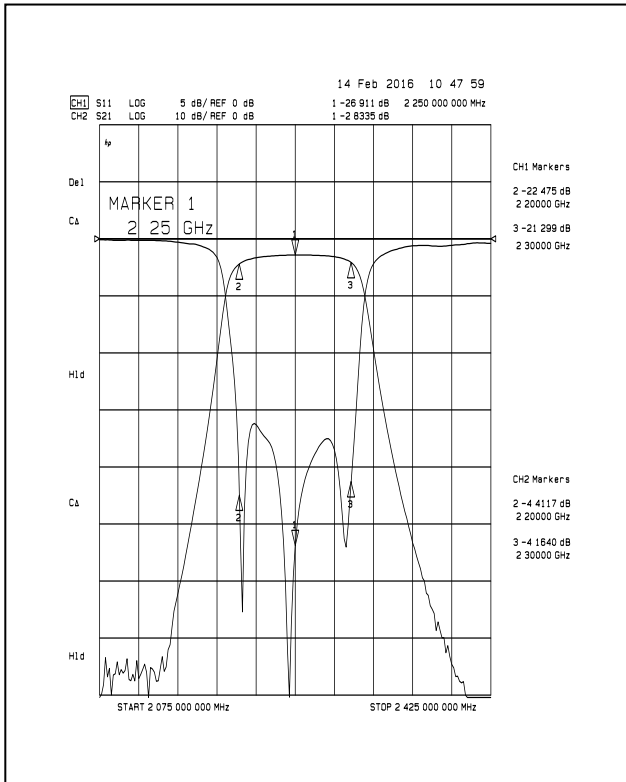
NOTE: Ground footprint may be pulled back from the edge within tolerance to meet production needs and better comply with IPC-A-600.

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. Graphs:

S21 & S11 (INSERTION LOSS, RETURN LOSS, GROUP DELAY)



S21 (ATTENUATION, OUTBAND ATTENUATION)

