

SPECIFICATION

COMMERCIALLY AVAILABLE

CERAMIC BAND PASS
PART NUMBER: CF-22501004B
RoHS

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN	DOCUMENT CHECKED
9/30/14 ^(kn)				

FILTRONETICS Inc

1. APPLICATION

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

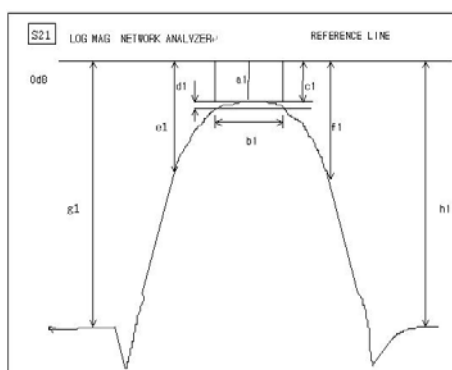
2. PART NUMBER:

PART NO	CF-22501004B
PACKAGING	PLASTIC TRAY

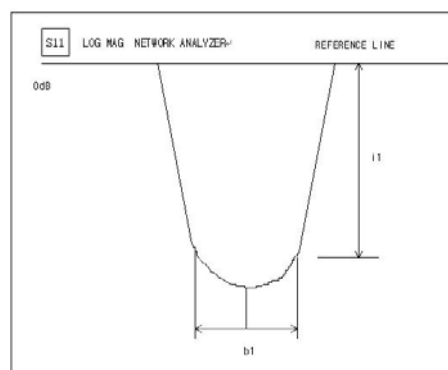
3. SPECIFICATIONS:

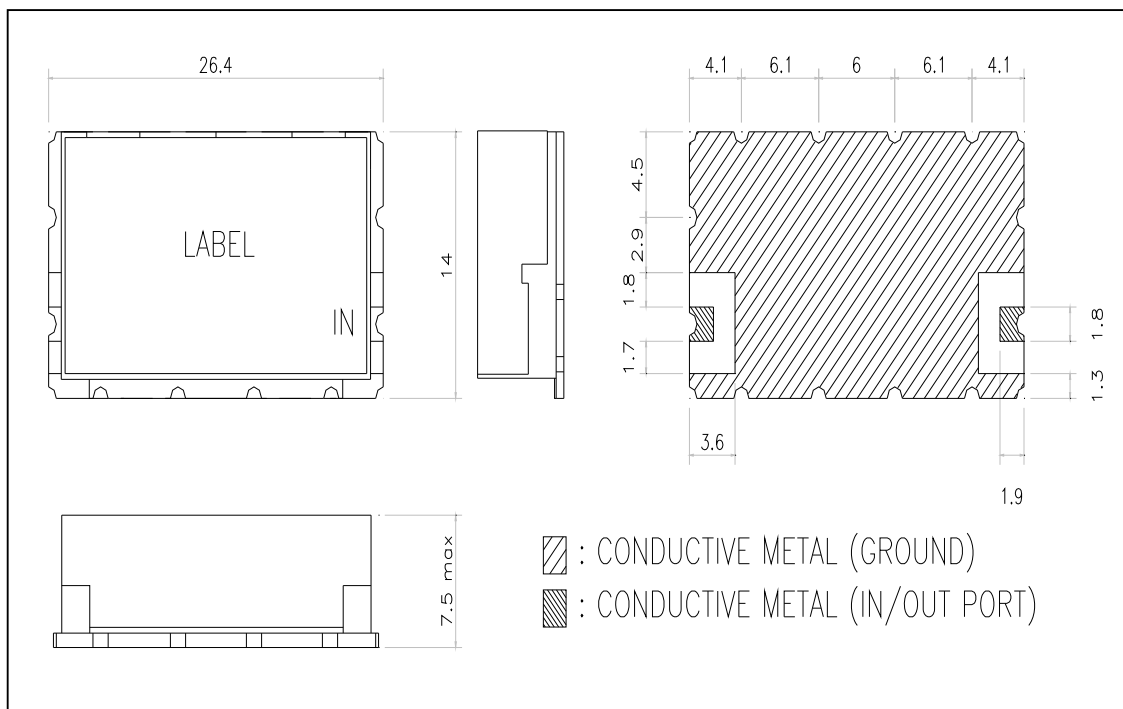
NO	ITEMS		Ref.	SPECIFICATION
1	Center Frequency (Fo)		-	2250 MHz
2	Pass Band Width(=PB)		-	Fo $\pm$ 50MHz Min
3	Insertion Loss	IN Fo	-	1.6 dB Max
4	Ripple	IN PB	-	1.0 dB Max
5	Attenuation [Absolute Value]	At 2120 MHz	-	20 dB Min
		At 2380 MHz		20 dB Min
6	Return Loss	IN PB	-	12 dB Min
7	Group Delay Variation	IN PB	-	10nsec Max
8	Impedance		-	50 Ω
9	Maximum Input Power		-	1 W (+30dBm)
10	Operating Temperature Range		-	-10 ~ +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 Ni PLATED
3. RESONATOR
 - 1) COATING MATERIAL: Ag
4. ROHS Compliant

MARKING

Part No
Filtronetics, Inc
Date Code

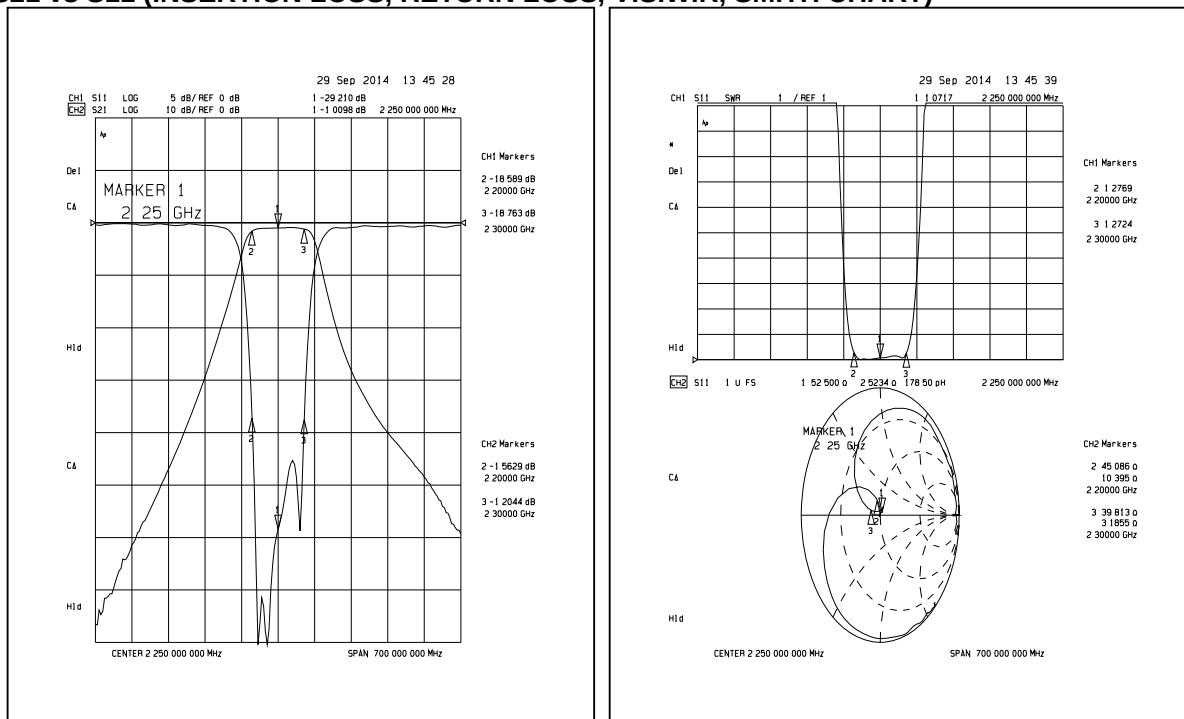
UNIT: MM
TOLERANCE: +/-0.5MM
IN/OUT LAND : +/-0.3MM

● **CAUTIONS:**

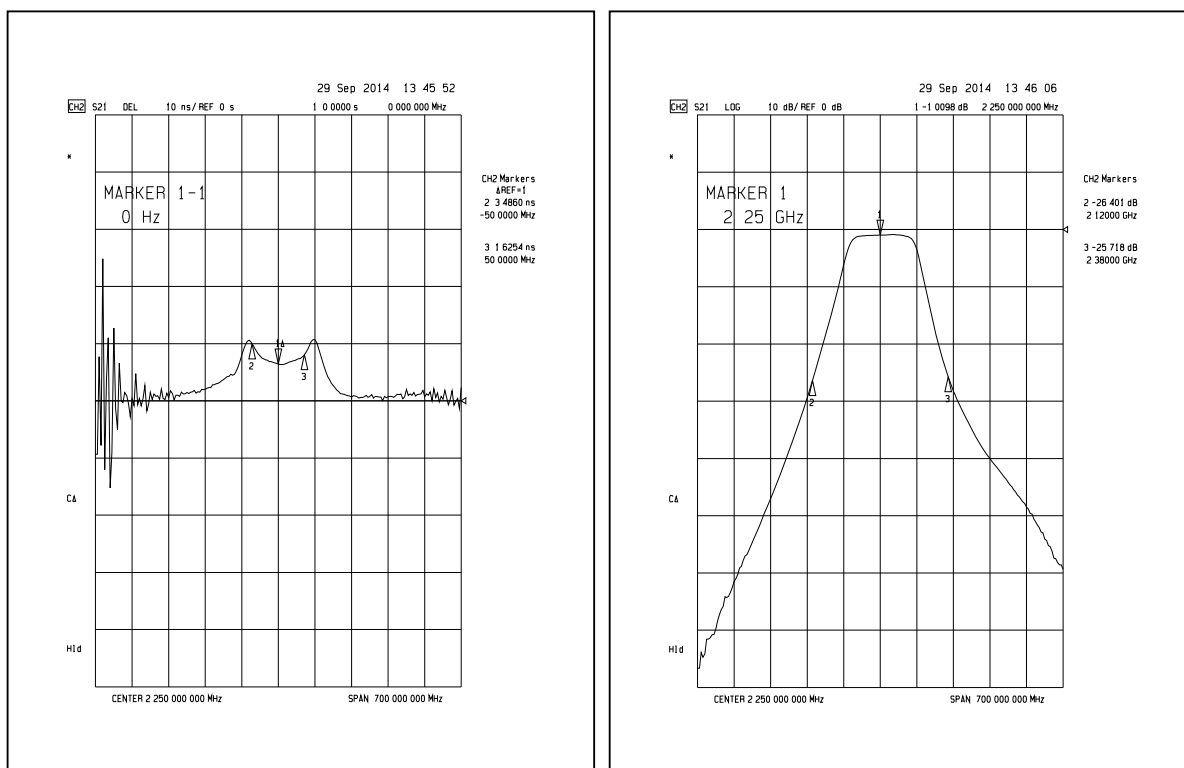
1. When handling products, be careful not to damage the outer-electrode.
2. When handling products be careful not to touch the outer-electrode with bare hands or solderability is reduced.
3. Do not apply excessive pressure or shock to product in handling or in transportation or damage to the ceramic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

5. SIMULATION:

S21 vs S11 (INSERTION LOSS, RETURN LOSS, V.S.W.R, SMITH CHART)



S21 (GROUP DELAY, ATTENUATION)



RECOMMENDED LAND PATTERN

