

SPECIFICATION

COMMERCIALLY AVAILABLE

CERAMIC BAND PASS
PART NUMBER: CF-22750104

RoHS

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN	DOCUMENT CHECKED
11/2/17 ^(kn)				

FILTRONETICS Inc

1. APPLICATION

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

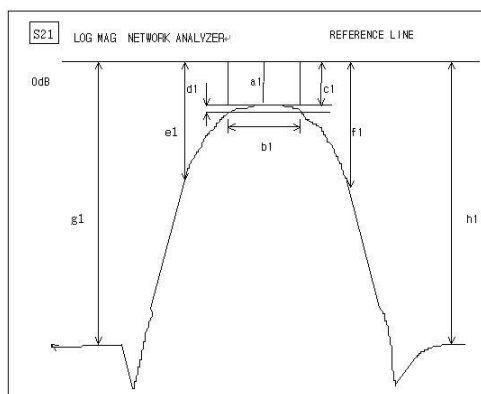
2. PART NUMBER:

PART NO	CF-22750104
PACKAGING	PLASTIC TRAY

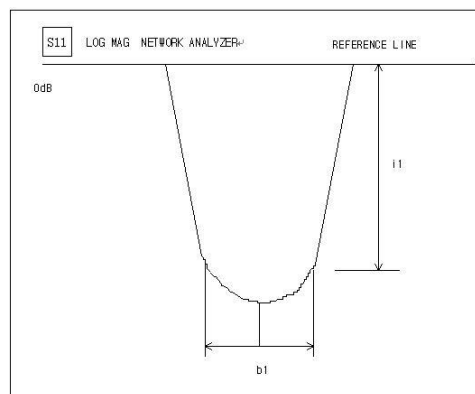
3. SPECIFICATIONS:

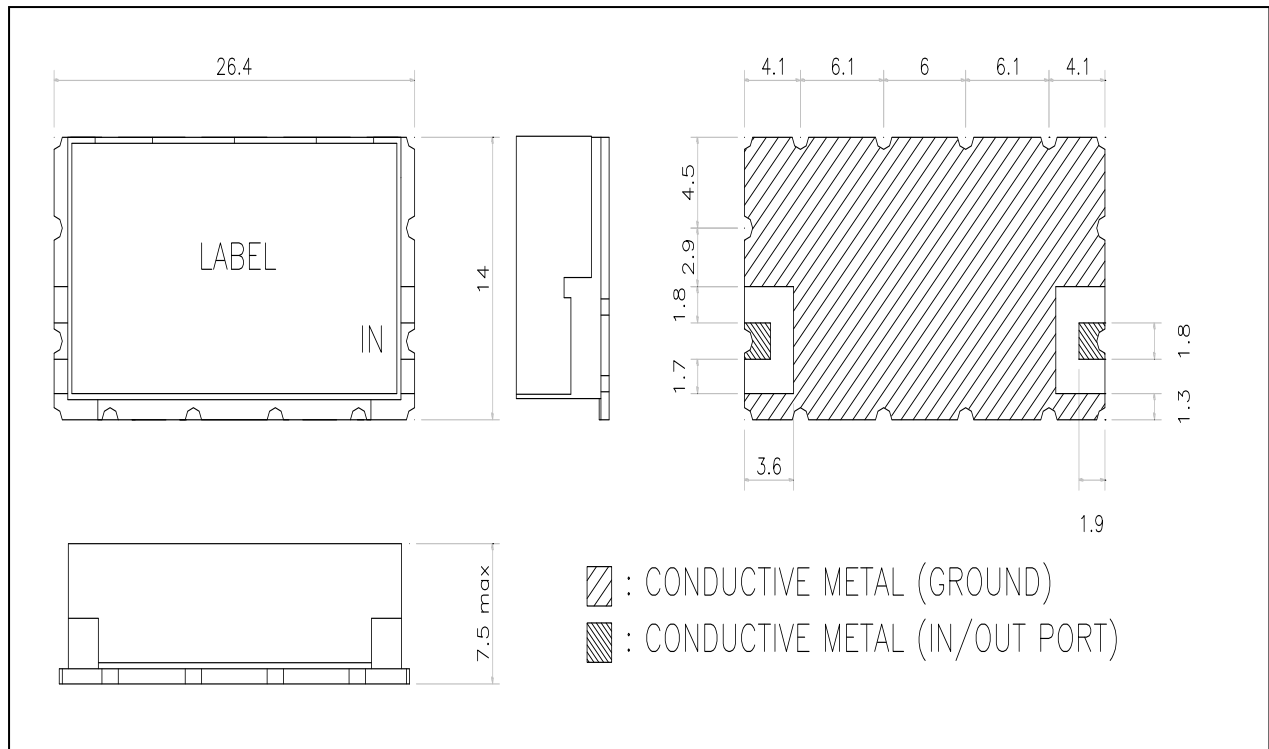
NO	ITEMS	Ref.	SPECIFICATION
1	Center Frequency (Fo)	a1	2275 MHz
2	Pass Band Width (=PB)	b1	Fo+/-5MHz
3	Insertion Loss AT Fo	a1	7.5 dB Max
4	Return Loss at Fo+/-5MHz	-	10dB Min
5	3 dB BAND WIDTH	-	10 MHz Min
6	30 dB BAND WIDTH	-	46 MHz Max
7	Impedance	-	50Ω
8	Maximum Input Power	-	1 W (+30dBm)
9	Operating 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
2. METAL CASE
 - 1) COVER MATERIAL: BRASS (Sn OR Ni PLATED)
3. RESONATOR: Dielectric Resonator
 - 1) COATING MATERIAL: Ag
4. NUMBER OF POLES: 4 Poles
5. RoHS Compliant

MARKING

Part No
Filtronetics
Date Code

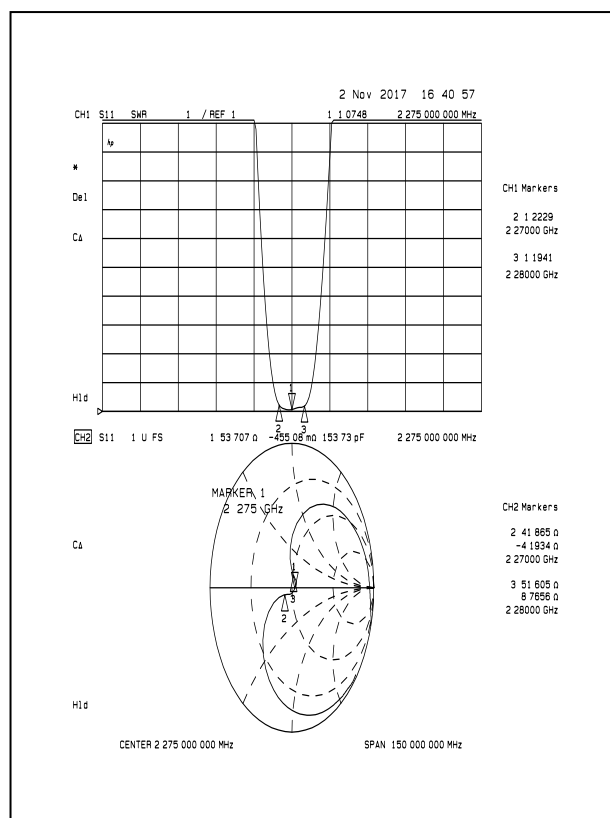
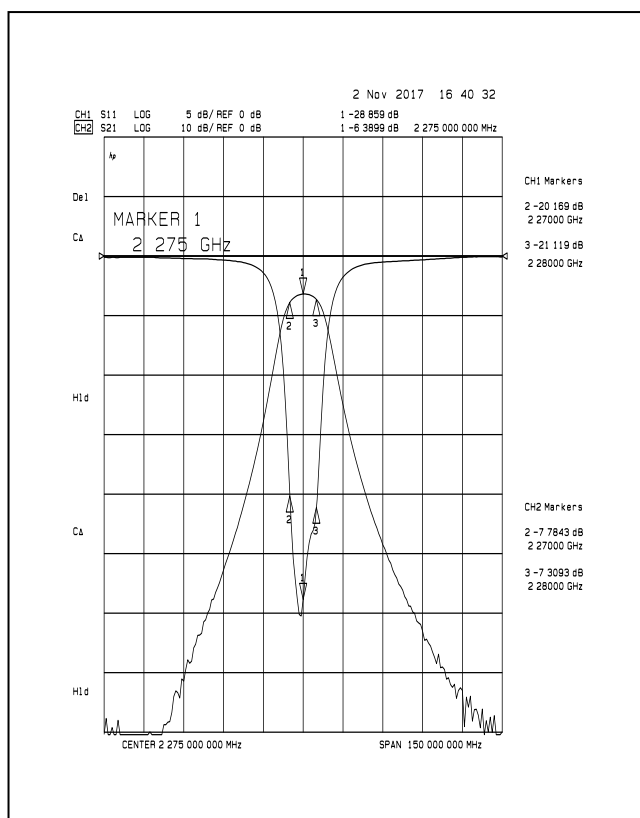
UNIT: MM
TOLERANCE: +/-0.5MM
IN/OUT LAND: +/-0.3MM

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 GRAPH:

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



S21 (3 dB BAND WIDTH, 30 dB BAND WIDTH)

