

SPECIFICATION

COMMERCIALLY AVAILABLE

CERAMIC BAND PASS
PART NUMBER: CF-08220275
RoHS

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN	DOCUMENT CHECKED
2/13/15 ^(kn)				

FILTRONETICS Inc

1. APPLICATION

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

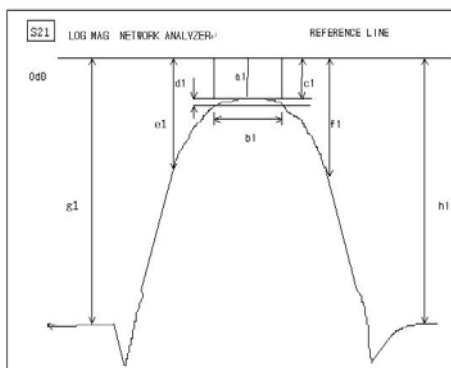
2. PART NUMBER:

PART NO	CF-08220275
PACKAGING	PLASTIC TRAY

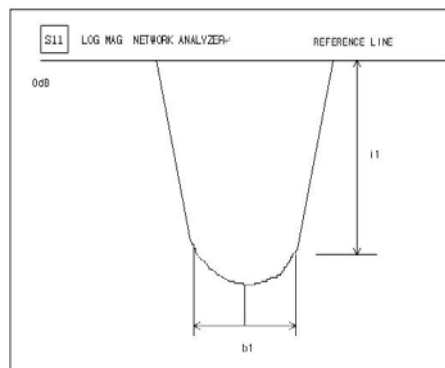
3. SPECIFICATIONS:

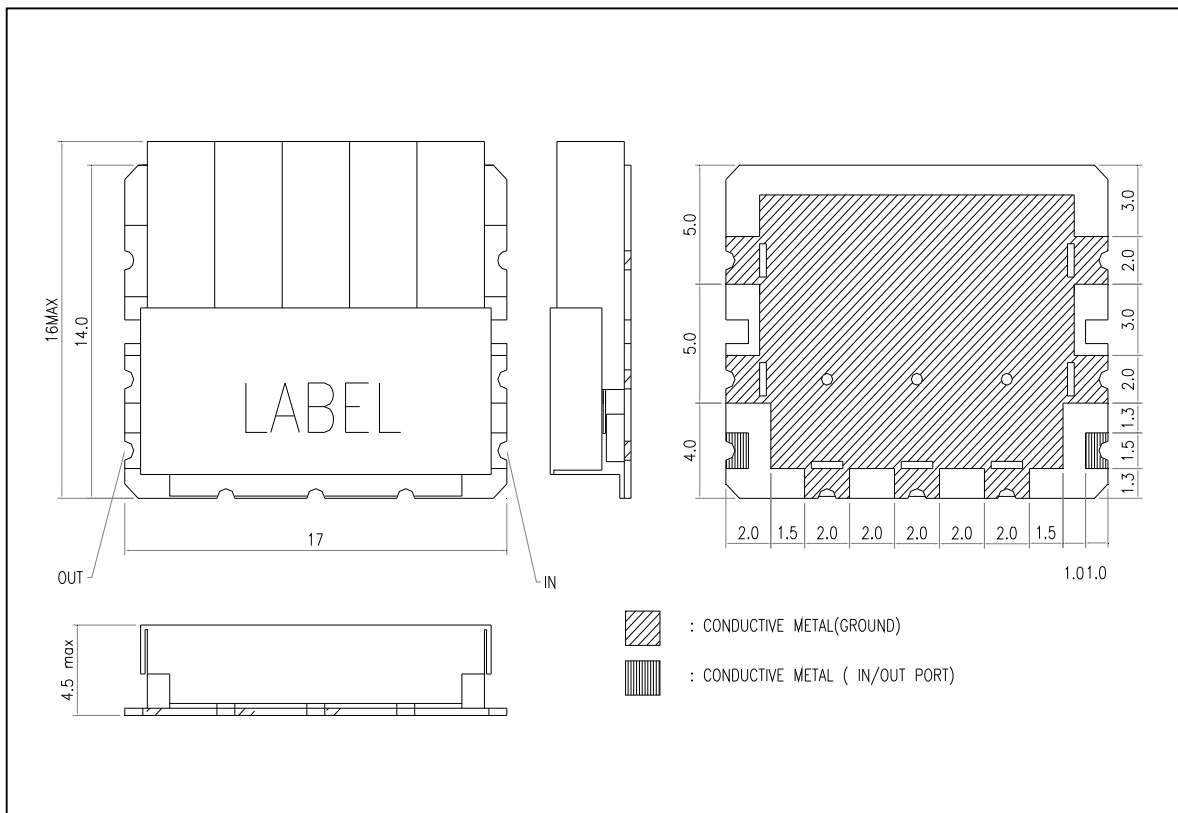
NO	ITEMS	Ref.	SPECIFICATION
1	Center Frequency (Fo)	a1	822.5 MHz
2	1.0dB Band Width	b1	27~30 MHz
3	3.0dB Band Width	b1	29 MHz Min
4	Insertion Loss AT Fo	a1	4.5 dB Max
5	V.S.W.R IN Fo+/-13.5MHz	-	1.75:1 Min
6	Ripple IN Fo+/-13.5MHz	-	1.0dB Max
7	Attenuation [absolute value]	At 867.5 MHz	40 dB Min
		At 732.5 MHz	68 dB Min
		At 790 MHz	28 dB Min
		At 777.5 MHz	44 dB Min
		At 855 MHz	25 dB Min
8	Impedance	-	50Ω
9	Maximum Input Power	-	1 W (+30dBm)
10	Operating Temperature Range	-	-40 ~ +85°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.

UNIT: MM

TOLERANCE: +/-0.5MM

IN/OUT LAND : +/-0.3MM

LABEL MARKING

CF-08220275

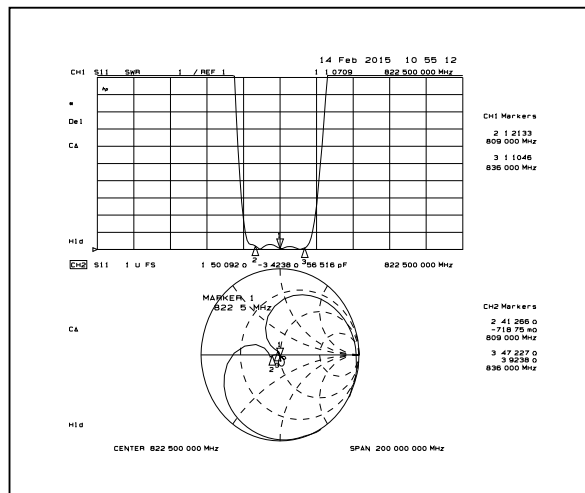
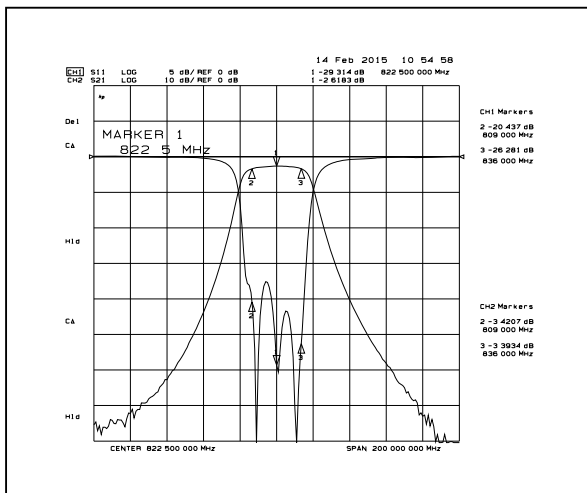
Date Code

CAUTIONS:

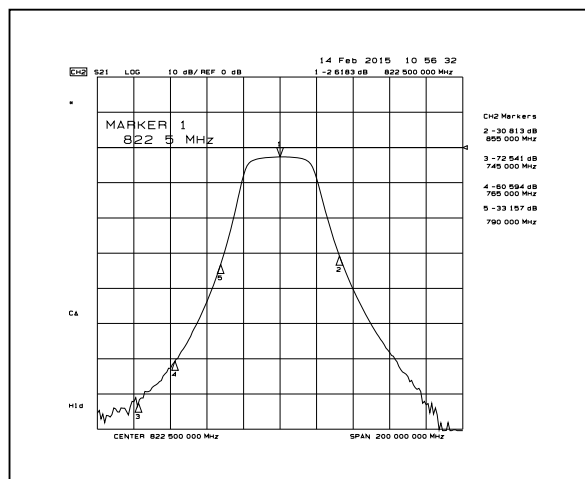
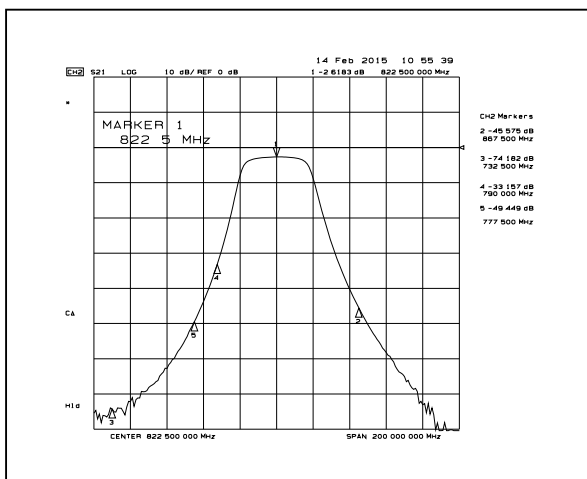
1. When handling products, be careful not to damage the outer-electrode.
2. When handling products be careful not to touch the outer-electrode with bare hands or solderability is reduced.
3. Do not apply excessive pressure or shock to product in handling or in transportation or damage to the ceramic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

5. SIMULATION:

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



S21 (ATTENUATION)



S21 (1dB BAND WIDTH, 3dB BAND WIDTH)

