

SPECIFICATION

COMMERCIALY AVAILABLE

PART NUMBER: CF-22000166

ITEM: DIELECTRIC CERAMIC FILTER
ROHS Compliant

Revision Made: 4/23/09 – Changed Operating Temp. Range

ISSUED	CHECKED	CHECKED	CHECKED
6/10/08 **			
4/23/09 kn	1/11/2011 SRJ	1/11/2011 BF	04/07/2011 GL

1. APPLICATION

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

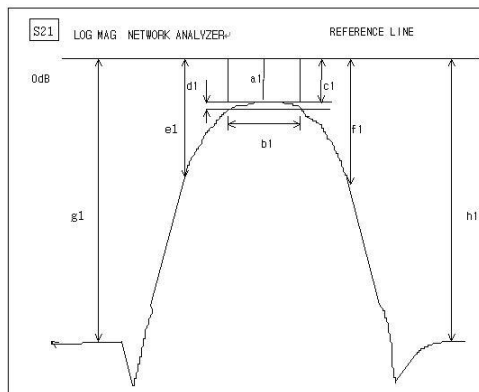
2. PART NUMBER

PART NO	CF-22000166
PACKAGING	PLASTIC TRAY

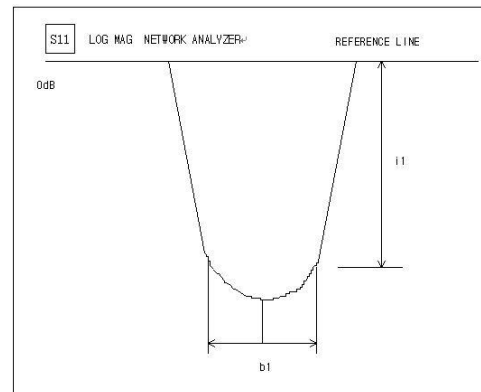
3. SPECIFICATIONS

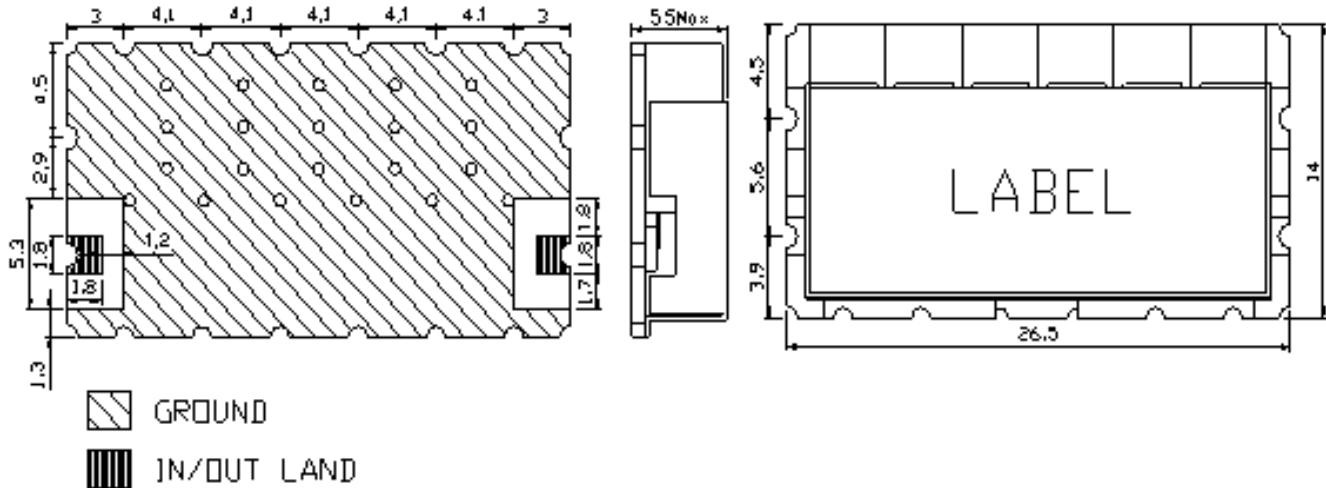
NO	ITEMS		Ref.	SPECIFICATION
1	Center Frequency (Fo)		-	2200 MHz
2	1.0 dB Band Width		-	16 MHz Min
3	Insertion Loss AT Fo		-	6.0 dB Max
4	Ripple IN Fo+/-8 MHz		-	1.0 dB Max
5	Attenuation [absolute value]	Fo +/- 50 MHz	-	60 dB Min
6	Return Loss IN Fo+/-8 MHz		-	12.5 dB Min
7	Impedance		-	50Ω
8	Maximum Input Power		-	1 W (+30 dBm)
9	Operating Temperature Range		-	-40 ~ +70°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: CF-22000166
 Filtronetics
 Date Code

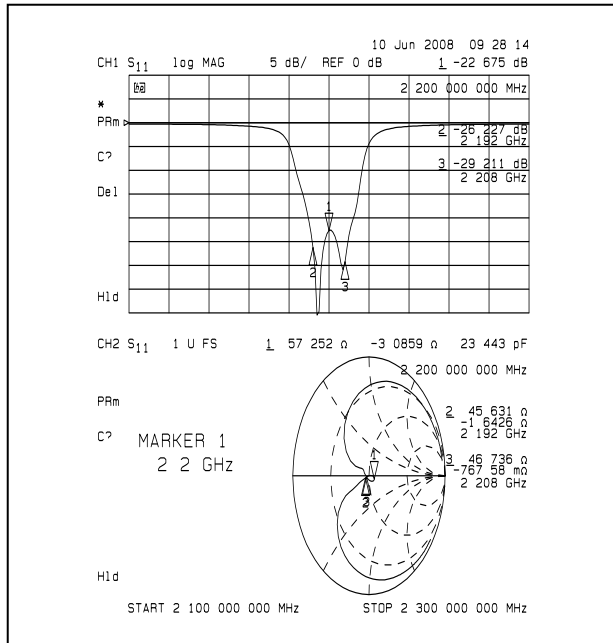
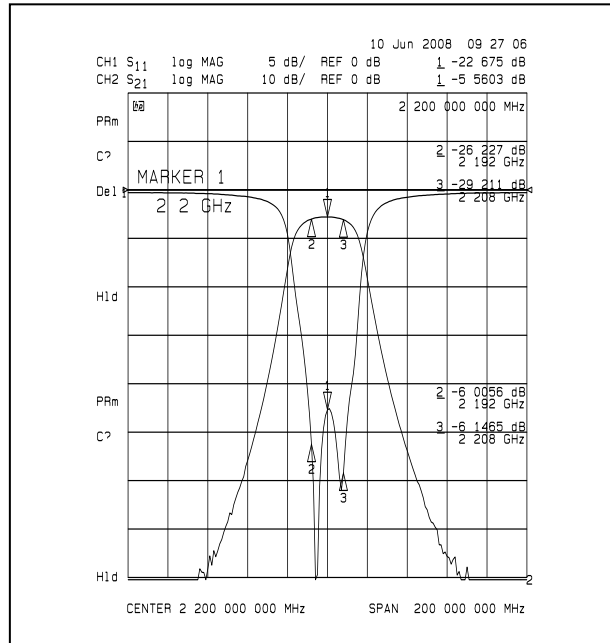
UNIT: MM
 TOLERANCE: +/-0.5MM
 IN/OUT LAND: +/-0.3MM

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 solder-ability 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 vs. S11 (INSERTION LOSS, RETURN LOSS, SMITH CHART)



S21 (1dB BAND WIDTH, ATTENUATION)

