

SPECIFICATION

COMMERCIALY AVAILABLE

ITEM:DIELECTRIC CERAMIC FILTER

PART NUMBER: CF-26500203

Prepared By:kn

Revised By:

ISSUED	CHECKED	CHECKED	CHECKED	APPROVED

FILTRONETICS Inc

1. APPLICATION

THIS SPECIFICATION APPLIES TO A BAND PASS FILTER USING DIELECTRIC RESONATORS

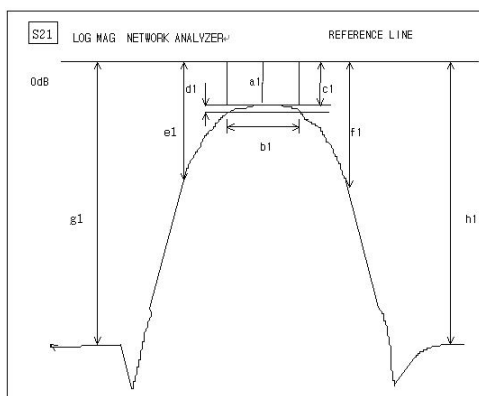
2. PART NUMBER:

PART NO	CF-26500203
PACKAGING	PLASTIC TRAY

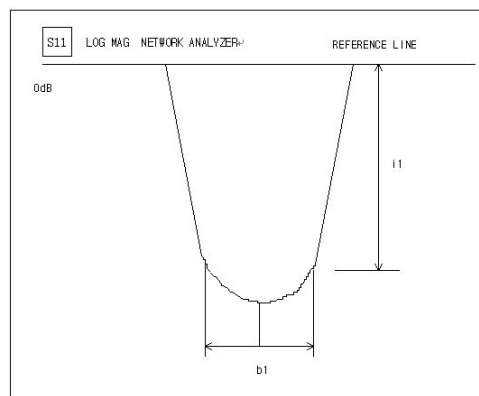
3. SPECIFICATIONS:

NO	ITEMS	Ref.	SPECIFICATION
1	Center Frequency (Fo)	-	2650 MHz
2	0.5dB Band Width	-	Fo+/- 10 MHz Min
3	Ripple Fo+/-10MHz		0.5dB Max
4	Insertion Loss Fo+/-10MHz	-	3.5 dB Max
5	Attenuation	At Fo+125MHz	35dB Min
		At Fo-250MHz	20dB Min
6	V.S.W.R Fo+/-10MHz	-	1.5:1 Max
7	Impedance	-	50Ω
8	Maximum Input Power	-	1 W (+30dBm)
9	Operating Temperature Range	-	-30 ~ +70 °C

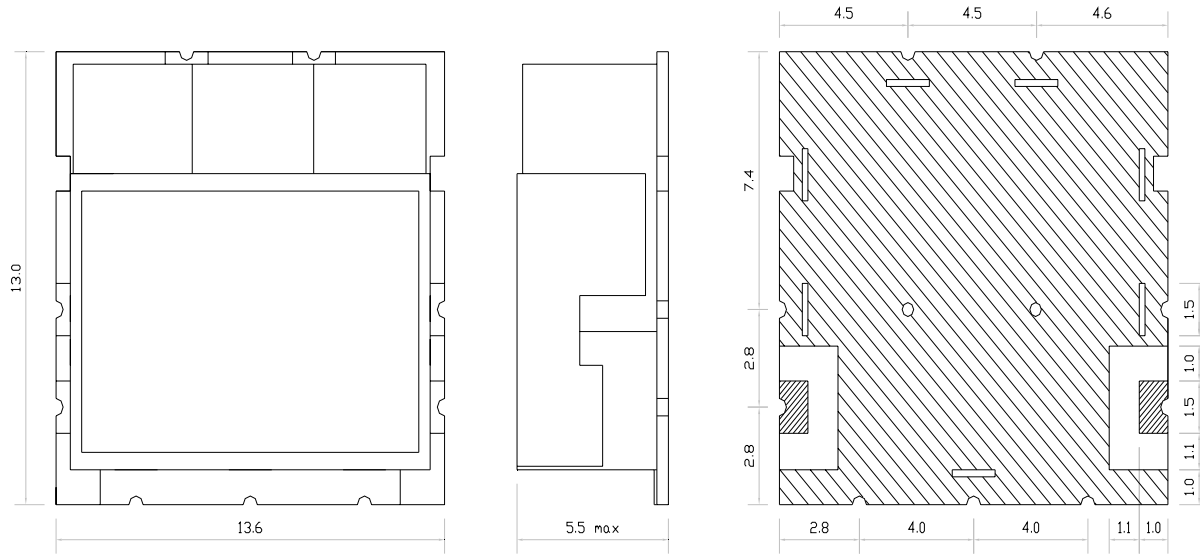
S21 LOG MAG NETWORK ANALYZER



S11 LOG MAG NETWORK ANALYZER



4.DIMENSIONS



 : IN/OUT
 : GROUND

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

The number of through holes may be changed without notice.

MARKING

Part No:CF-26500203
 Filtronetics, Inc
 Date Code

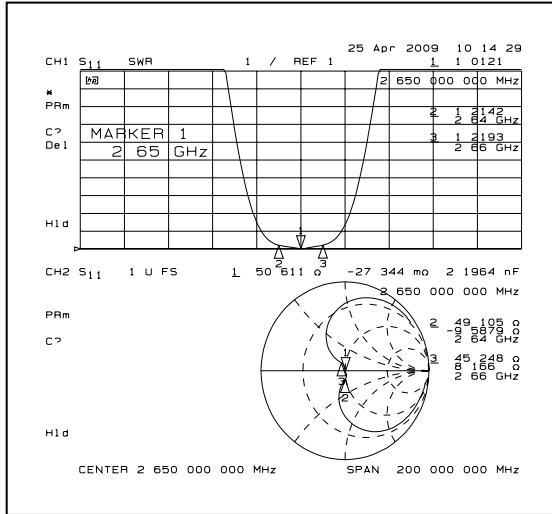
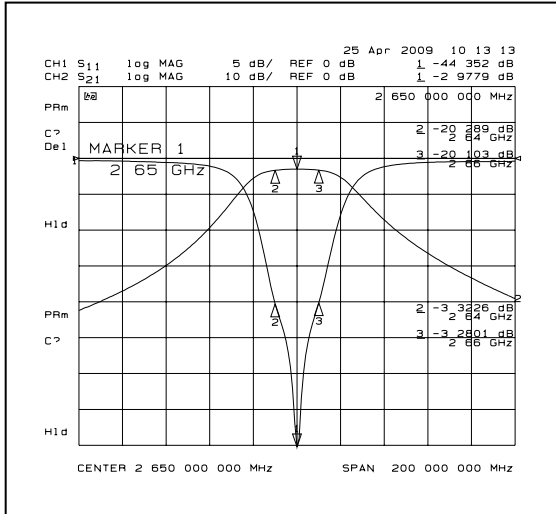
UNIT: MM
 TOLERANCE: +/-0.5MM
 IN/OUT LAND :+/-0.3MM

● CAUTIONS:

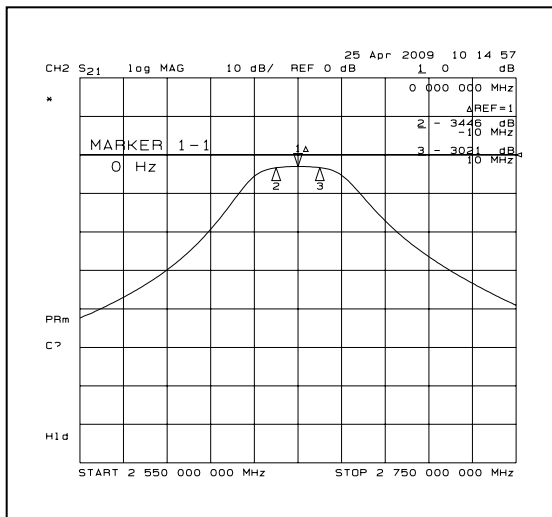
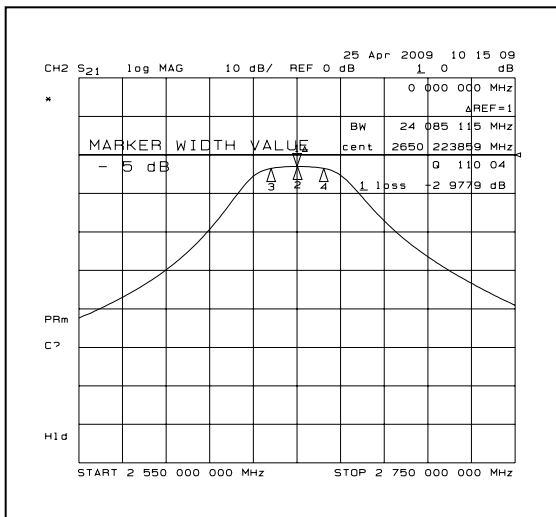
1. When handling products, be careful not to damage the outer-electrode.
2. When handling products be careful not to touch the outer-electrode with bare hands or solderability is reduced.
3. Do not apply excessive pressure or shock to product in handling or in transportation or damage to the ceramic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

5. GRAPHS

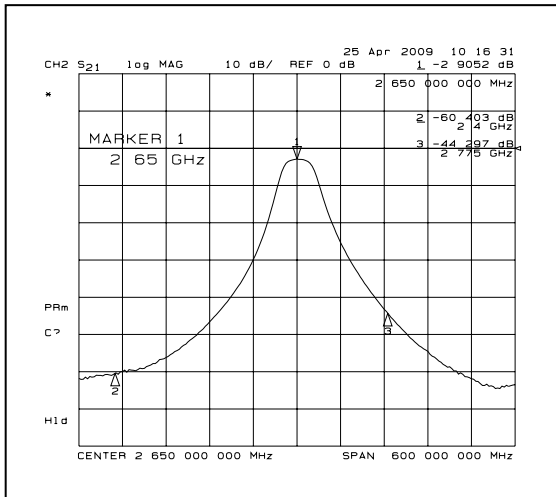
S21 vs S11 (INSERTION LOSS, RETURN LOSS, V.S.W.R, SMITH CHART)



S21 (0.5dB BAND WIDTH, RIPPLE)



S21 (ATTENUATION)



6. DEFINITIONS

	DESCRIPTION	SPECIFICATION
Center Frequency	The midpoint of through band pass filter pass band, normally expressed as the arithmetic mean of the -3dB point. Also called f_0 .	3. SPECIFICATION
Pass Band Width	The width of the pass band of a filter referenced to the minimum insertion loss point in the pass band. The pass band of a filter is stated as -1.0dB bandwidth.	
Insertion Loss	The loss of the filter, in dB, measured at center frequency relative to a through line (0 dB).	
Attenuation	Reduction of RF power through a filter measured in dB, at desired band and referenced to 0 dB. (Filter to be removed from circuit)	
Pass Band Ripple	Variations in loss in the pass band of the filter, superimposed upon the fundamental shape of the pass band.	
V.S.W.R in Pass Band	The ratio of the maximum value of a standing wave to its minimum value, related to the return loss in pass band.	