

# SPECIFICATION

COMMERCIALY AVAILABLE

ITEM:DIELECTRIC CERAMIC FILTER

PART NUMBER: CFM-375020010

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

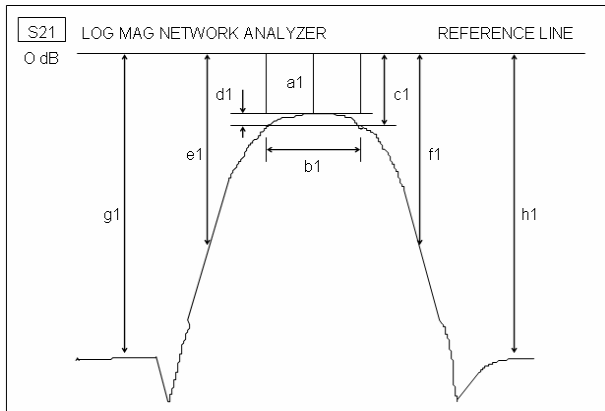
2. PART NUMBER:

PART NO	CFM-375020010
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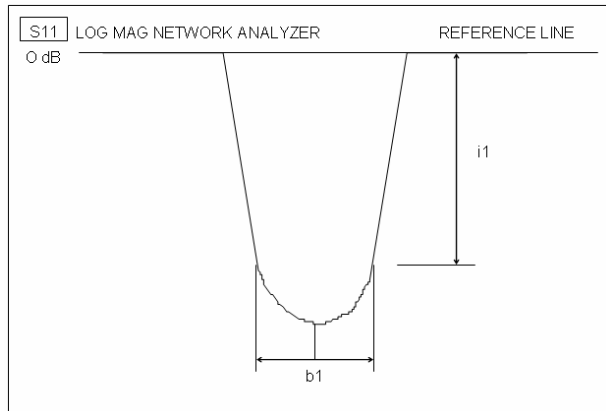
3. SPECIFICATIONS:

NO	Parameter		Typ.	Spec.(@25°C)
1	Center Frequency (Fo)	a1	3750 MHz	
2	Pass Bandwidth (BW)	-	200 MHz (3650 ~ 3850MHz)	
3	Insertion Loss in BW	-	2.82 dB	3.2 dB Max.
4	Ripple in BW	-	1.0 dB	1.2 dB Max.
5	Return Loss in BW	-	15.0 dB	14.0 dB Min.
6	Attenuation [Absolute Value]	At 3610 MHz	-	14.0 dBc Min.
		At 3890 MHz	-	15.0 dBc Min.
7	Impedance	-	50 Ohm	
8	Input Power	-	3 W Max.	
9	Operating Temperature	-	-40 to +85°C	

S21 LOG MAG NETWORK ANALYZER

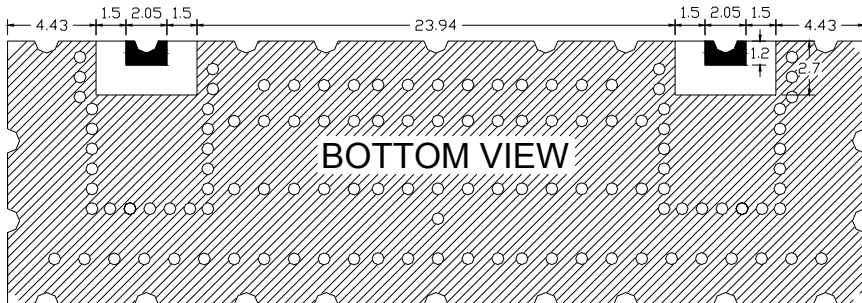
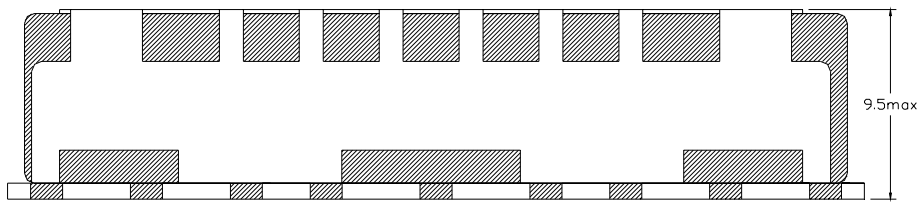
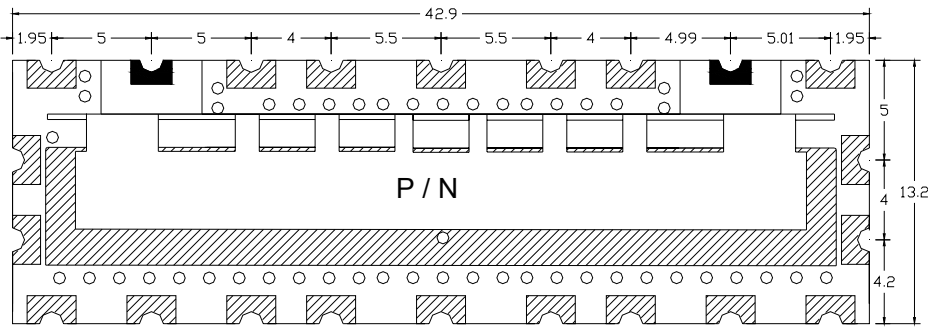


S11 LOG MAG NETWORK ANALYZER



4.DIMENSIONS:

UNIT: MM  
TOLERANCE: ±0.3MM

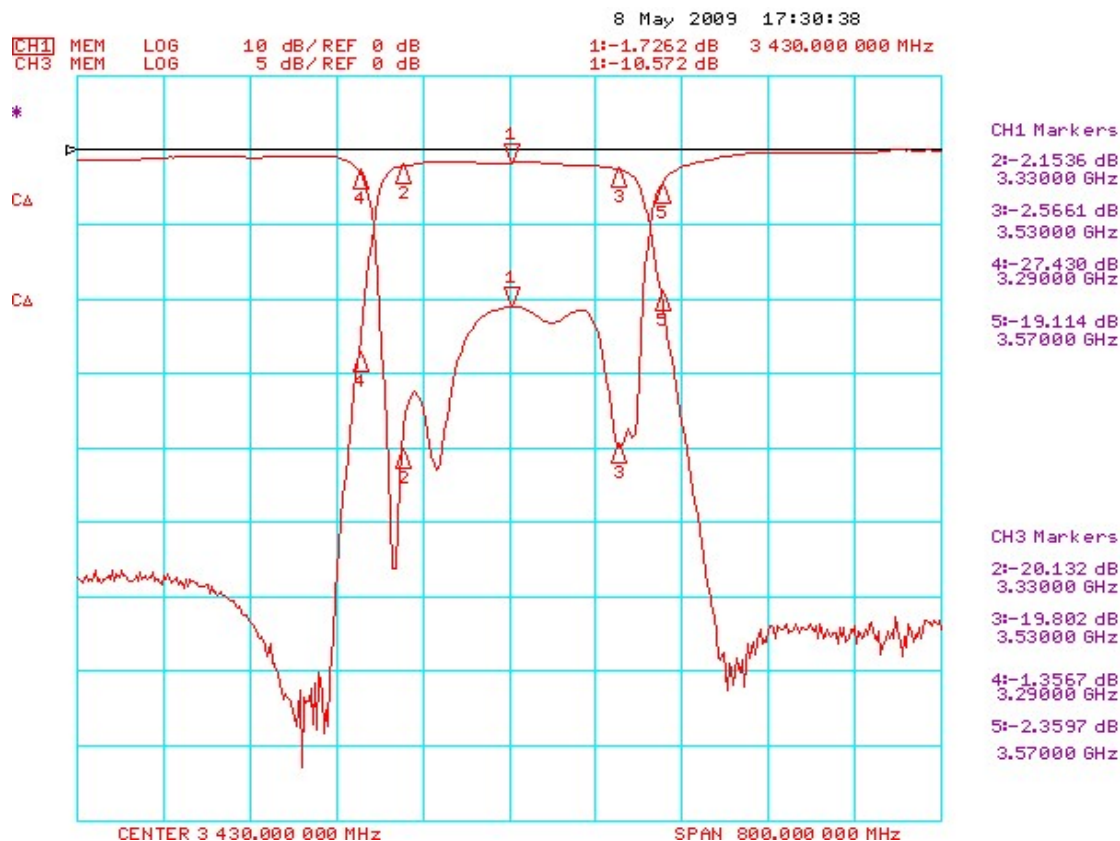


■ : I/O PAD  
▨ : GROUND

<p>□ MATERIAL SPECIFICATION</p> <p>1. METAL CASE : Sn</p> <p>2. RESONATOR 1) COATING MATERIAL: Ag</p> <p>3. RoHS Compliant</p>
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<p>※ MARKING (Laser)</p>
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5. GRAPHS: S21 & S11 (Insertion Loss, Return Loss, 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 fo.	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.	