

SPECIFICATION

COMMERCIALY AVAILABLE

CERAMIC

PART NUMBER: CF-074911210T

RoHS

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN	DOCUMENT CHECKED
12/17/07**				
7/3/12 DS	07/05/2012 TFG		07/05/2012 GL	

FILTRONETICS Inc

1. APPLICATION

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

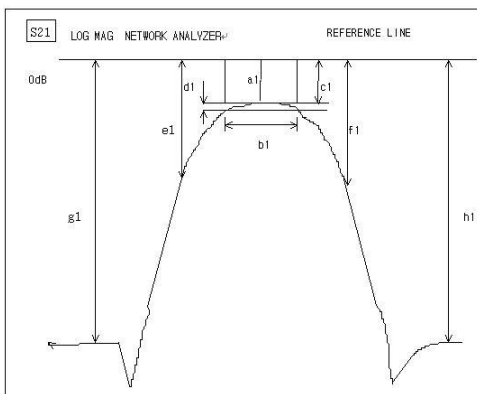
2. PART NUMBER

PART NO	CF-074911210T
PACKAGING	PLASTIC TRAY

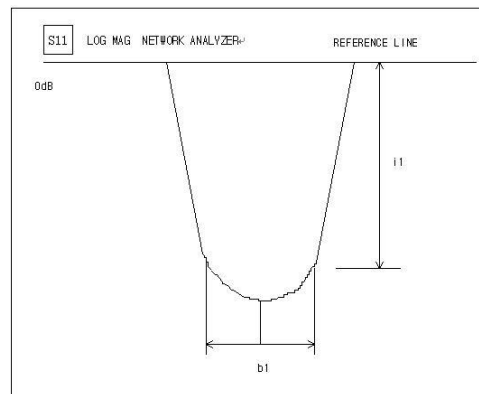
3. SPECIFICATIONS

NO	ITEMS	Ref.	SPECIFICATION
1	Center Frequency (Fo)	-	749 MHz
2	Pass Band Width (=PB)	-	Fo +/-56Mhz
3	Insertion Loss AT Fo	-	3.0 dB Max
4	Ripple IN PB	-	2.0 dB Max
5	Attenuation [absolute value]	At 693MHz- 40MHz	40 dB Min
		At 805MHz+ 40MHz	40 dB Min
6	Return Loss IN PB	-	10 dB Min
7	Impedance	-	50Ω
8	Maximum Input Power	-	1 W (+30dBm)
9	Operating Temperature Range	-	-40 ~ +74 degree(°C)

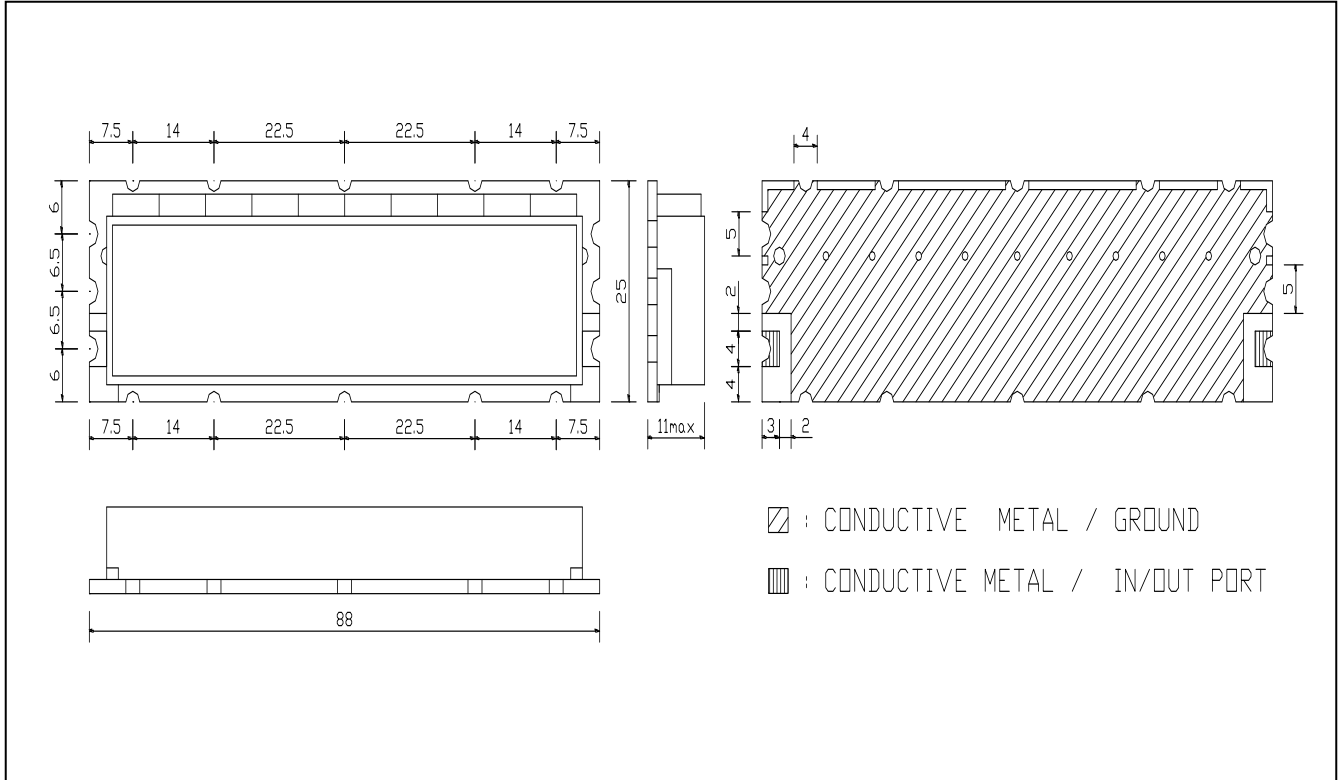
S21 LOG MAG NETWORK ANALYZER



S11 LOG MAG NETWORK ANALYZER



4. DIMENSIONS



<p>MATERIAL SPECIFICATION</p> <ol style="list-style-type: none"> 1. PCB <ol style="list-style-type: none"> 1) MATERIAL: FR4 2) TERMINALS: Au PLATED 2. METAL CASE <ol style="list-style-type: none"> 1) MATERIAL: Sn OR Ni PLATED 3. RESONATOR <ol style="list-style-type: none"> 1) COATING MATERIAL: Ag 4. ROHS Compliant 	<p>MARKING</p> <p>Part No CF-074911210T Filtronetics, Inc Date Code</p> <p>UNIT: MM TOLERANCE: +/-0.5MM IN/OUT LAND :+/-0.3MM</p>
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● **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. DEFINITIONS:

TERMS	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.	

