

SPECIFICATION

COMMERCIALY AVAILABLE

CERAMIC BAND PASS
PART NUMBER: CF-05201005

RoHS

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN	DOCUMENT CHECKED
11/28/16 ^(kn)				

FILTRONETICS Inc

1. APPLICATION

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

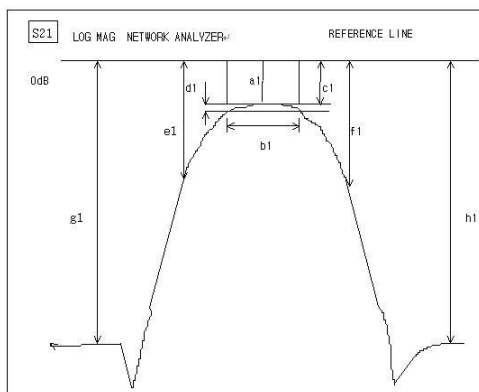
2. PART NUMBER:

PART NO	CF-05201005
PACKAGING	PLASTIC TRAY

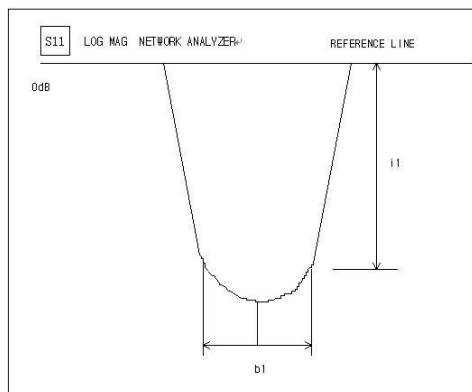
3. SPECIFICATIONS:

NO	ITEMS		SPECIFICATION
1	Center Frequency (Fo)	-	520MHz
2	Pass Band Width (=PB)	-	Fo+/-50 MHz
3	Insertion Loss IN PB	-	2.0 dB max
4	1.0dB BANDWIDTH	-	100MHz Min
5	Attenuation [Absolute Value]	At Fo-165MHz	55dB Min
		At Fo+165MHz	50dB Min
6	Return Loss at Fo+/- 50MHz	-	12 dB Min
7	Group Delay Variation at Fo+/- 50MHz		14nsec Max
8	Impedance	-	50 Ω
9	Maximum Input Power	-	1 W (+30dBm) Max
10	Operating Temperature Range	-	-30 - +75 °C

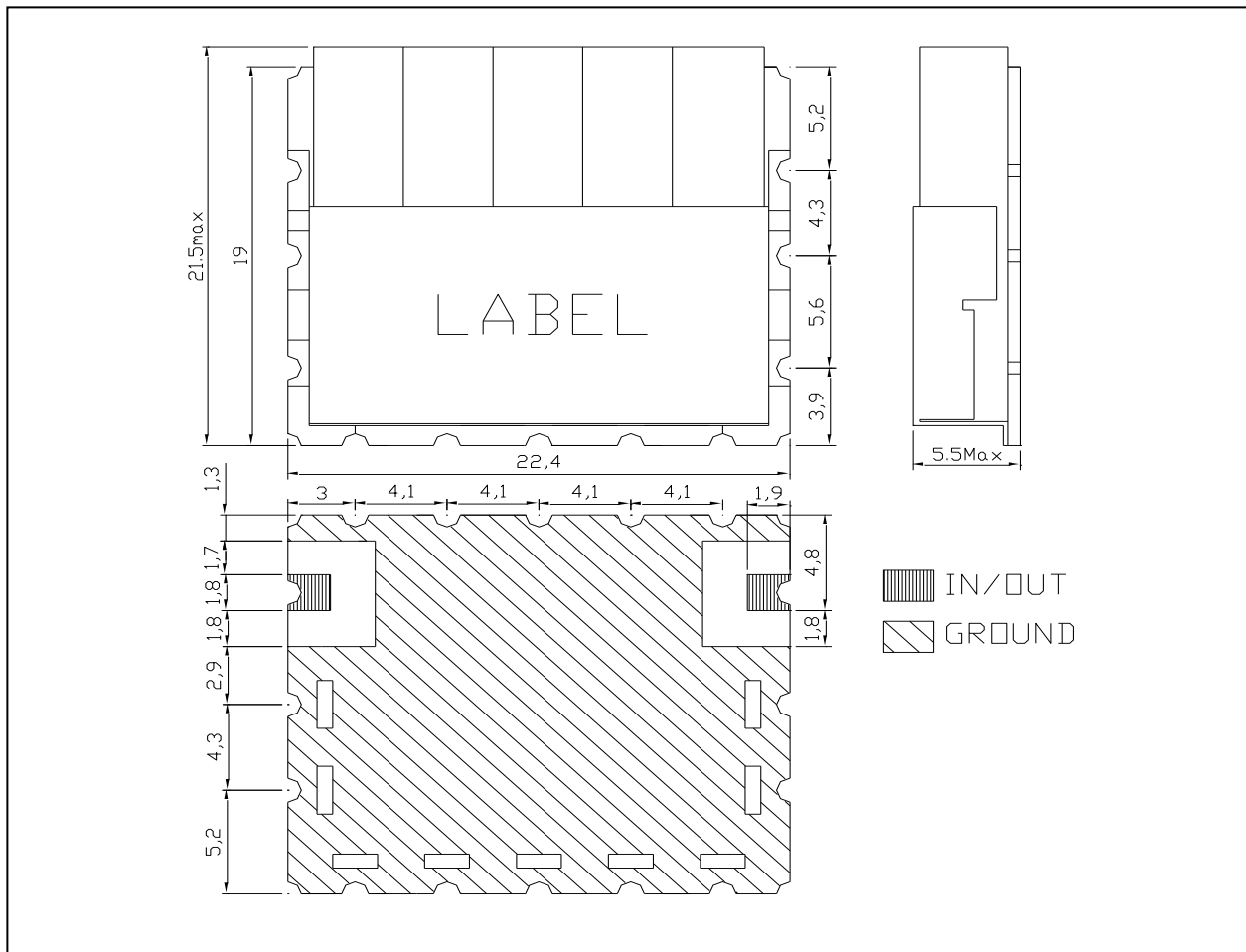
S21 LOG MAG NETWORK ANALYZER



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
 - 2) DIMENSION: 4MM x 4MM

MARKING:

CF-05201005
Date Code

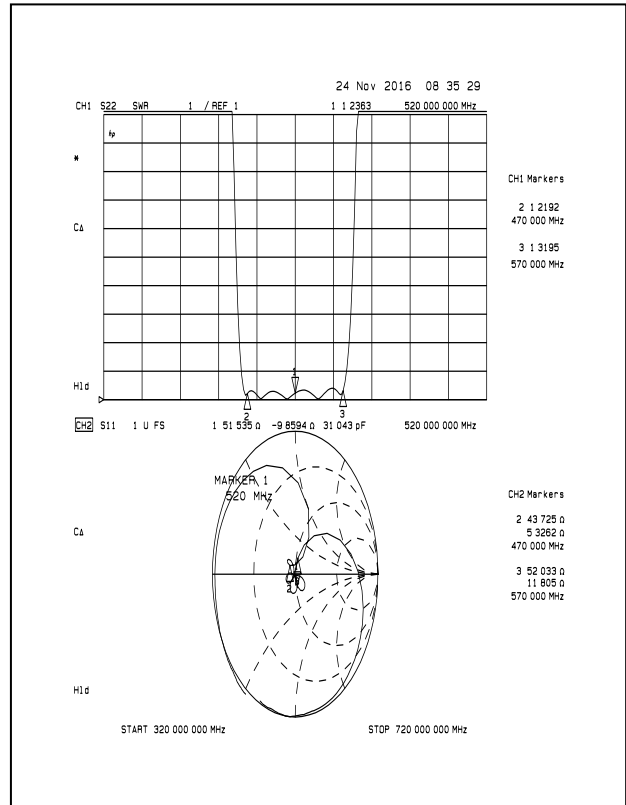
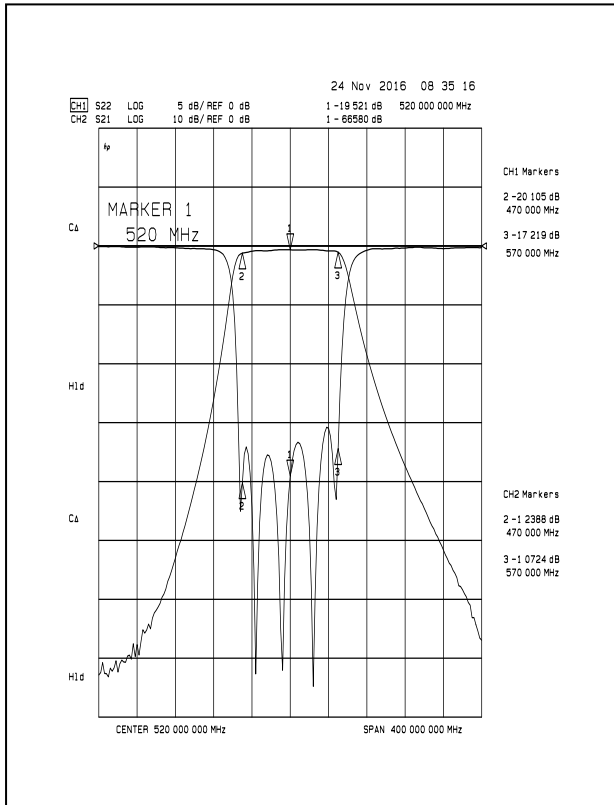
UNIT: MM
TOLERANCE: +/-0.5MM
IN/OUT LAND TOLERANCE: +/- 0.3MM

● **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. SIMULATION GRAPH:

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



S21 (GROUP DELAY, ATTENUATION)

