

SPECIFICATION

COMMERCIALLY AVAILABLE

CERAMIC BAND PASS
PART NUMBER: CF-10900505

RoHS

Also available in SMA
See FNP-1436

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN	DOCUMENT CHECKED
11/3/17 ^(kn)				

FILTRONETICS Inc

1. APPLICATION

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

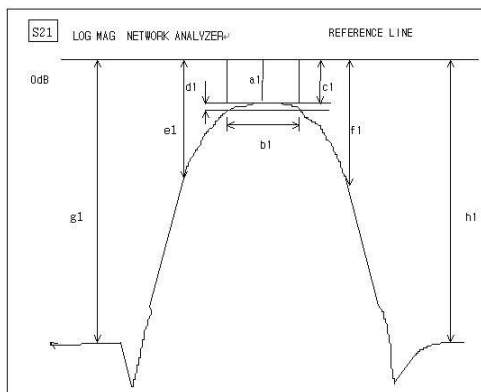
2. PART NUMBER:

PART NO	CF-10900505
PACKAGING	PLASTIC TRAY

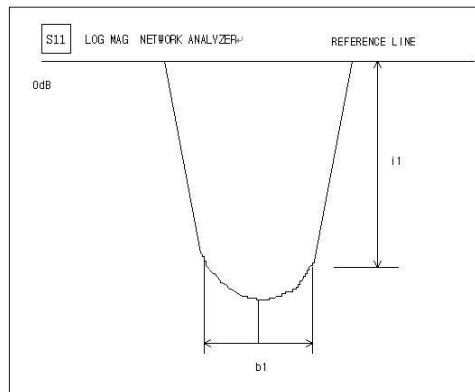
3. SPECIFICATIONS:

NO	ITEMS	Ref.	SPECIFICATION
1	Center Frequency (Fo)	a1	1090 MHz
2	Pass Band Width (=PB)	b1	Fo+/-25MHz
3	Insertion Loss AT Fo	a1	2.6 dB Max.
4	Return Loss at Fo+/-25MHz	-	10dB Min
5	2 dB BAND WIDTH	-	50 MHz Min
6	32 dB BAND WIDTH	-	120 MHz Max
7	Impedance	-	50Ω
8	Maximum Input Power	-	1 W (+30dBm)
9	Operating Temperature Range	-	-30 ~ +75°C

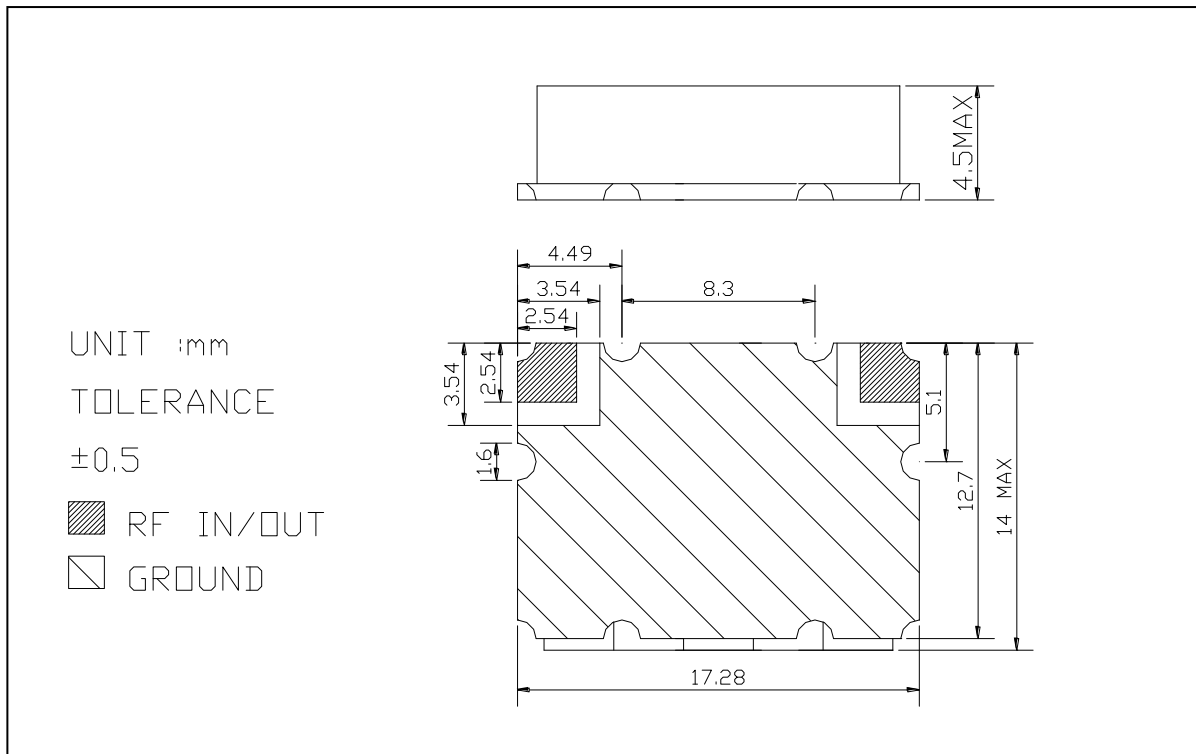
S21 LOG MAG NETWORK ANALYZER



S11 LOG MAG NETWORK ANALYZER



4. DIMENSIONS:



MATERIAL SPECIFICATION

1. PCB
 - 1) MATERIAL: FR4
 - 2) TERMINALS: Au PLATED
2. METAL CASE
 - 1) COVER MATERIAL: BRASS (Sn OR Ni PLATED)
3. RESONATOR: Dielectric Resonator
 - 1) COATING MATERIAL: Ag
4. NUMBER OF POLES: 5 Poles
5. RoHS Compliant

MARKING:

Part No
 Filtronetics
 Date Code

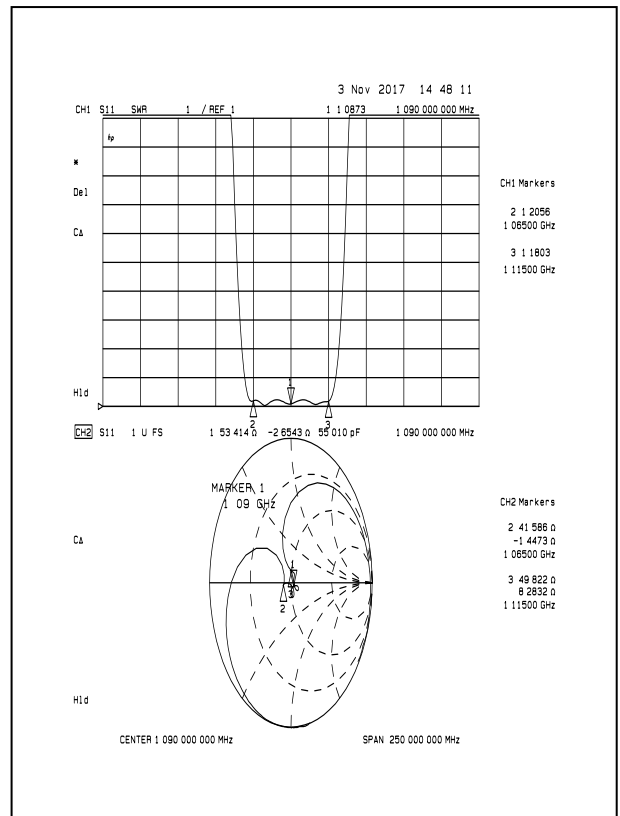
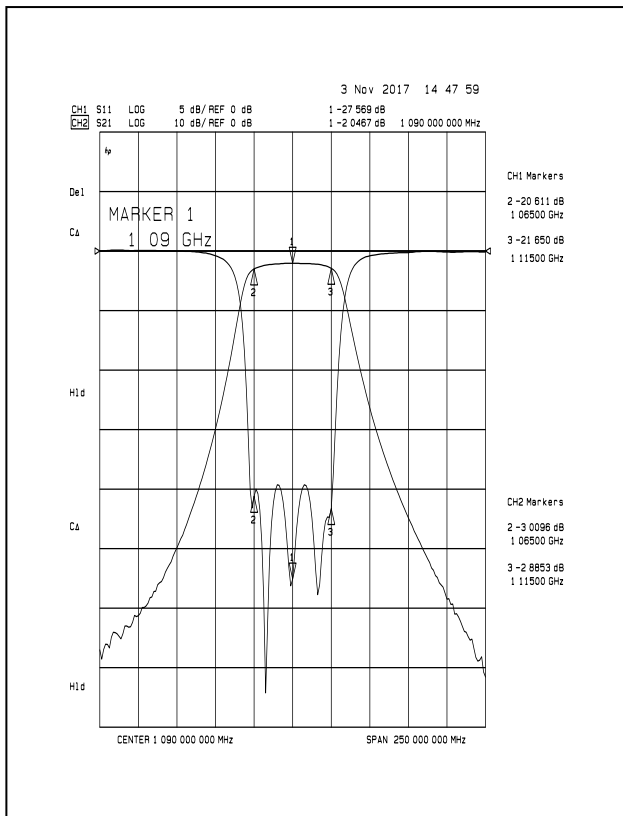
UNIT: MM
 TOLERANCE: +/-0.5MM
 IN/OUT LAND: +/-0.3MM

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 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 (2dB BAND WIDTH, 32dB BAND WIDTH)

