

**PRELIMINARY  
SPECIFICATION**  
COMMERCIALY AVAILABLE

CERAMIC BAND PASS  
PART NUMBER: CF-18020958

RoHS

9/20/17 Added Graphs

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN	DOCUMENT CHECKED
6/23/17 <sup>(kn)</sup>				
9/20/17 <sup>(kn)</sup>				

**FILTRONETICS Inc**

### 1. APPLICATION

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

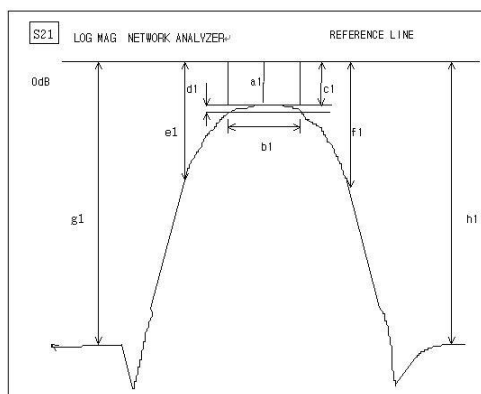
### 2. PART NUMBER:

PART NO	CF-18020958
PACKAGING	PLASTIC TRAY

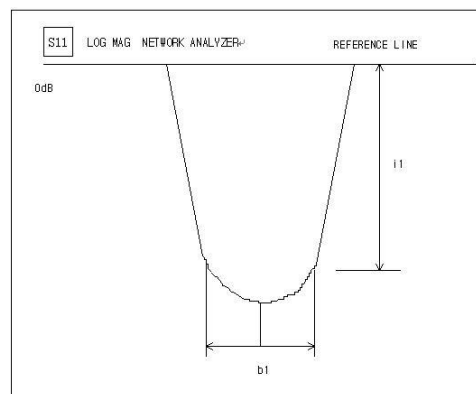
### 3. SPECIFICATIONS:

NO	ITEMS	Ref.	SPECIFICATION
1	Center Frequency (Fo)	-	1802.5 MHz
2	3dB Band Width (PB)	-	Fo+/-47.5 MHz Min
3	Insertion Loss AT Fo	-	3.7 dB Max
4	50dB Band Width	-	260MHz Max
5	Return Loss at Fo+/-47.5 MHz	-	12 dB Min
6	Impedance	-	50Ω
7	Maximum Input Power	-	1 W (+30dBm)
8	Operating Temperature Range	-	-40 - +75°C

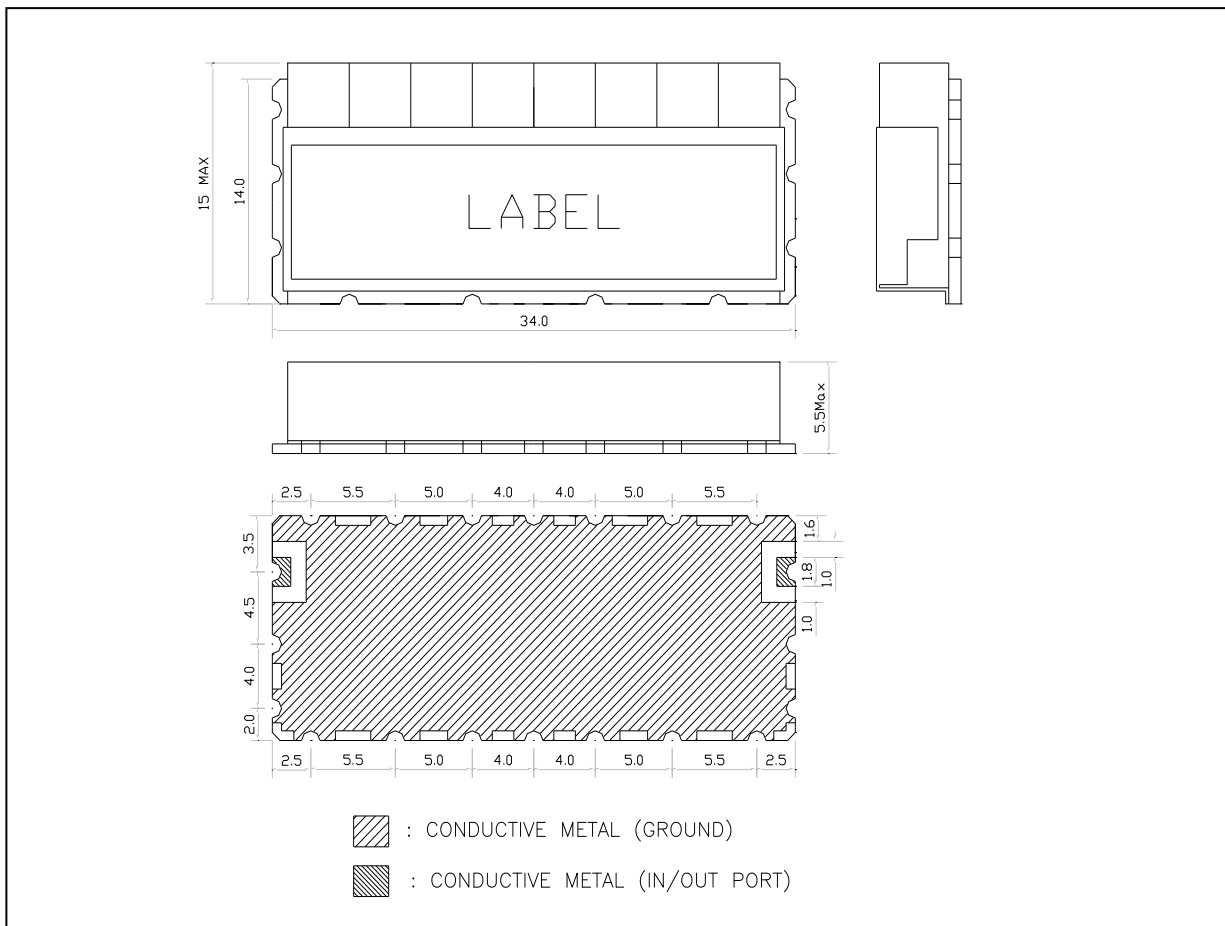
**S21 LOG MAG NETWORK ANALYZER**



**S11 LOG MAG NETWORK ANALYZER**



4. DIMENSIONS:



**Mechanical Specification**

1. Resonators: Dielectric Resonator
2. Number of Poles: 8 poles
3. Resonator Size: 4mm X 4mm
4. PCB Material: FR-4
5. Input/output Terminals: Au Plated
6. Cover Material: Brass (Tin plated)
7. RoHS Compliant.

Note: The number of through holes may be changed without notice.

**MARKING**  
 PART NO  
 FILTRONETICS

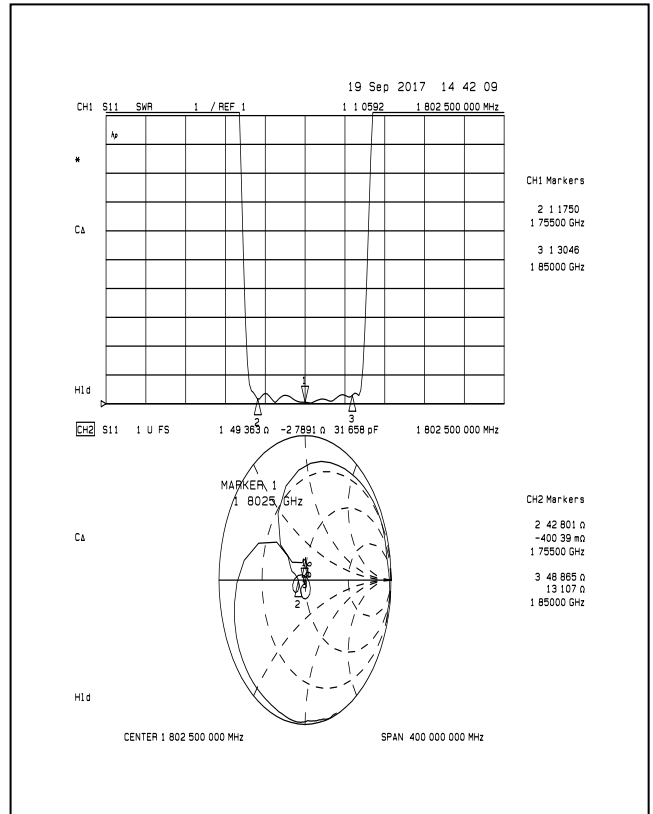
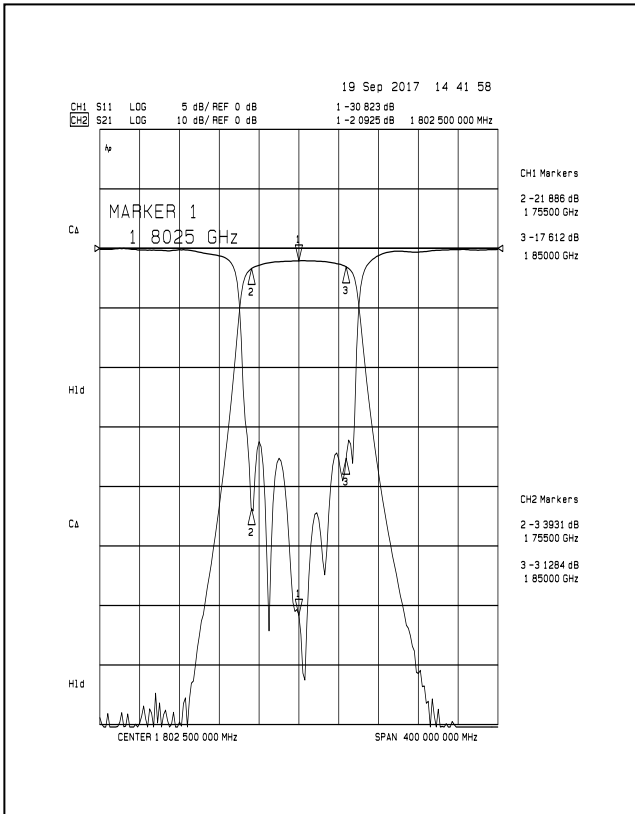
UNIT: MM  
 TOLERANCE: +/-0.5MM  
 IN/OUT LAND: +/-0.3MM

● 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, ATTENUATION)



S21 (3dB BAND WIDTH, 50dB BAND WIDTH)

