

SPECIFICATION

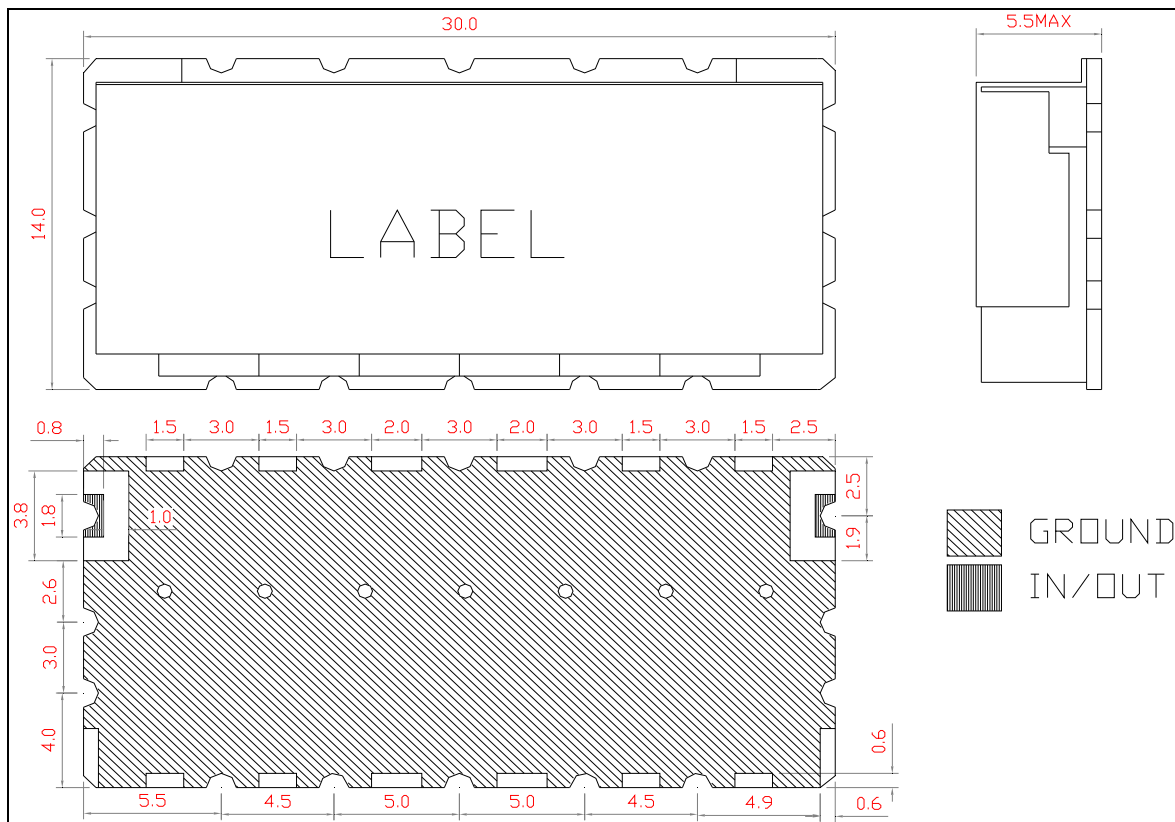
COMMERCIALY AVAILABLE

CERAMIC BAND PASS FILTER
PART NUMBER: CF-11504006
RoHS

| ISSUED | CHECKED | CHECKED | CHECKED | APPROVED |
|---------------------------|---------|---------|---------|----------|
| 7/23/2009 ^(kn) | | | | |
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FILTRONETICS Inc

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
4. RoHS Compliant

MARKING

Part No: CF-11504006
 Filtronetics, Inc
 Date Code

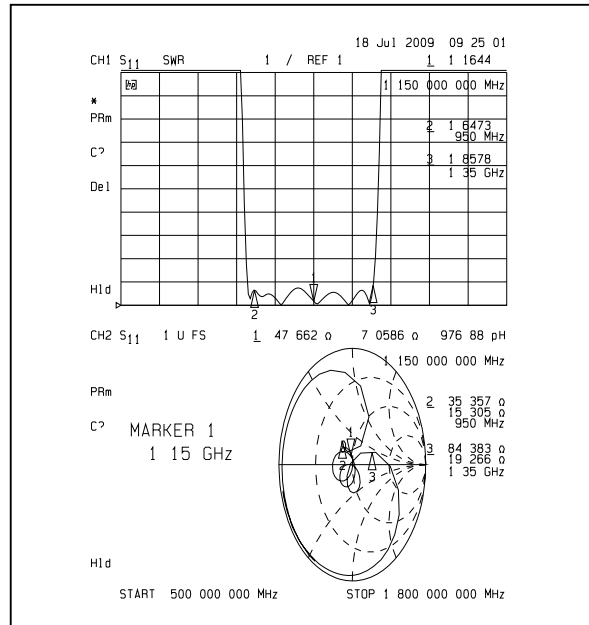
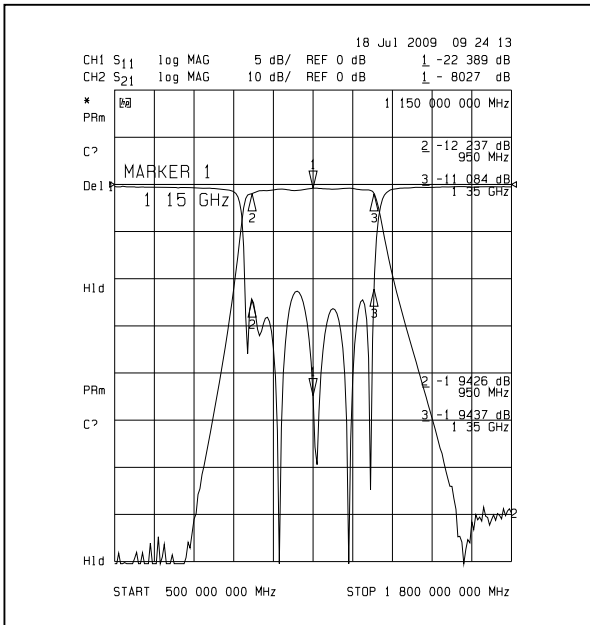
UNIT: MM
 TOLERANCE: +/-0.5MM
 IN/OUT LAND: +/-0.3MM

● CAUTIONS:

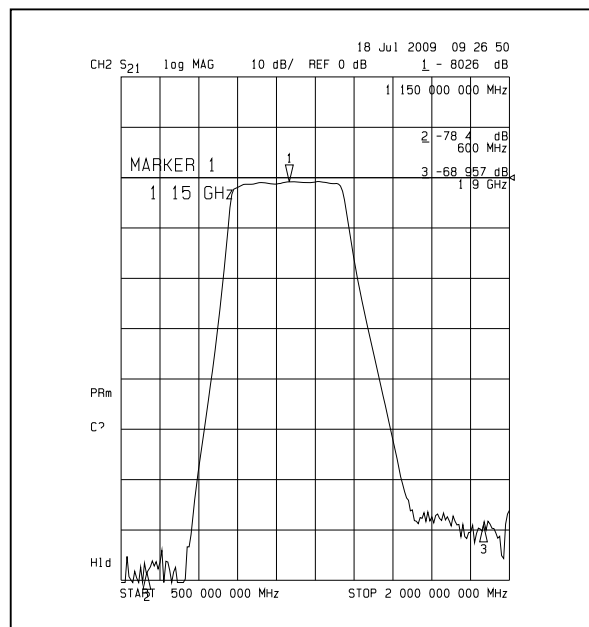
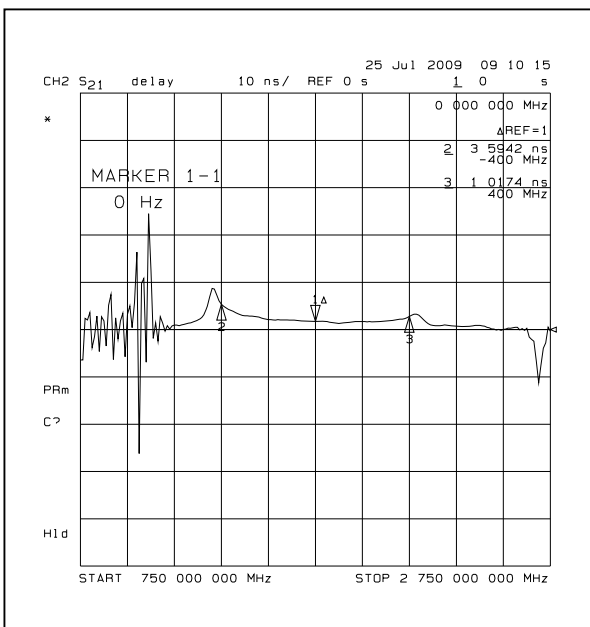
1. When handling products, be careful not to damage the outer-electrode.
2. When handling products, be careful not to touch the outer-electrode with bare hands or solderability is reduced.
3. Do not apply excessive pressure or shock to product in handling or in transportation or damage to the ceramic filters may result.

5. GRAPHS

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



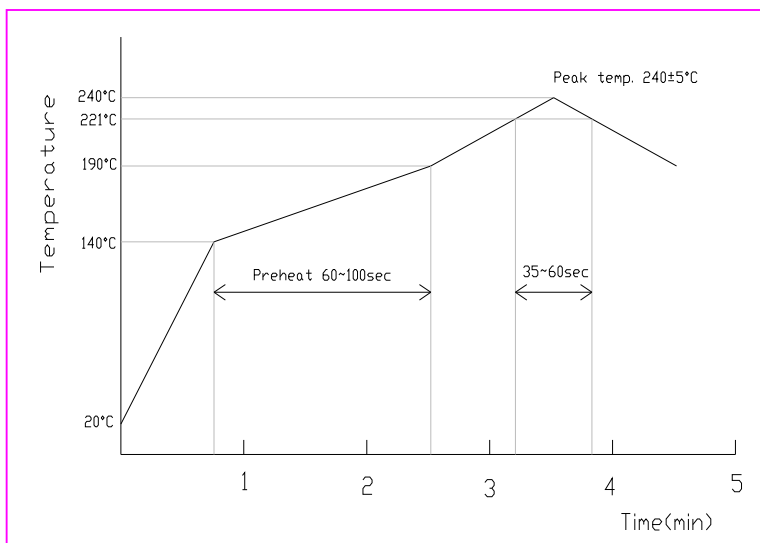
S21 (GROUP DELAY, ATTENUATION)



6. 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 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. | |
| Date Code | Each date code shall be from a single lot | |
| Lot | One Batch of parts processed in a single manufacturing run. A single lot shall have no more than one firing, plating, soldering, or other batch processing. | |
| Cleanliness | Parts shall be clean. They shall be free from smudges, loose solder, solder spatter, metal chips or mold release agents. No burrs. Particles or any foreign material over 0.2 mm which might detract from the intended operation, function or appearance of the part. | |

7. REFLOW SOLDERING STANDARD CONDITIONS FOR RoHS



- Measuring point of temperature in-out terminals of the device.
- Reflow Soldering
- Both convection and infrared rays
- Hot air
- Hot plates
- Solder Cream: Sn96.5/Ag3.5