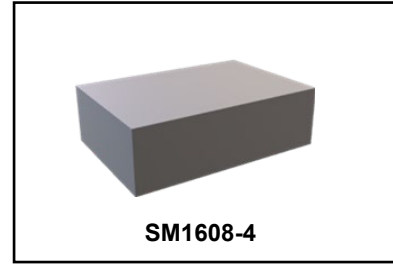


CF1034

**2450 MHz
LTCC LP Filter**



• *Complies with Directive 2002/95/EC (RoHS)*

Absolute Maximum Ratings

| Rating | Value |
|-------------------------------|----------------|
| Input Power | 3.0 W |
| Operating Temperature Range | -40° to +85°C |
| Storage Temperature Range | -40°C to +85°C |
| Input/Output Impedance | 50 Ω |
| Moisture Sensitivity Level: 1 | |

Electrical Characteristics

| Item | Unit | Min. | Typ. | Max. | Note |
|--|------|------|------|------|------|
| Center Frequency | MHz | | 2450 | | |
| Insertion Loss (2400 - 2500 MHz) | dB | | 0.33 | 0.45 | |
| Return Loss (2400 - 2500 MHz) | dB | 12 | 18 | | |
| Attenuation (reference level from 0 dB) | | | | | |
| 4800 - 5000 MHz | dB | 35 | 39 | | |
| 7200 - 7500 MHz | dB | 35 | 44 | | |

| | |
|------------|------------------------|
| Case Style | SM1608-4, 1.6 x 0.8 mm |
|------------|------------------------|



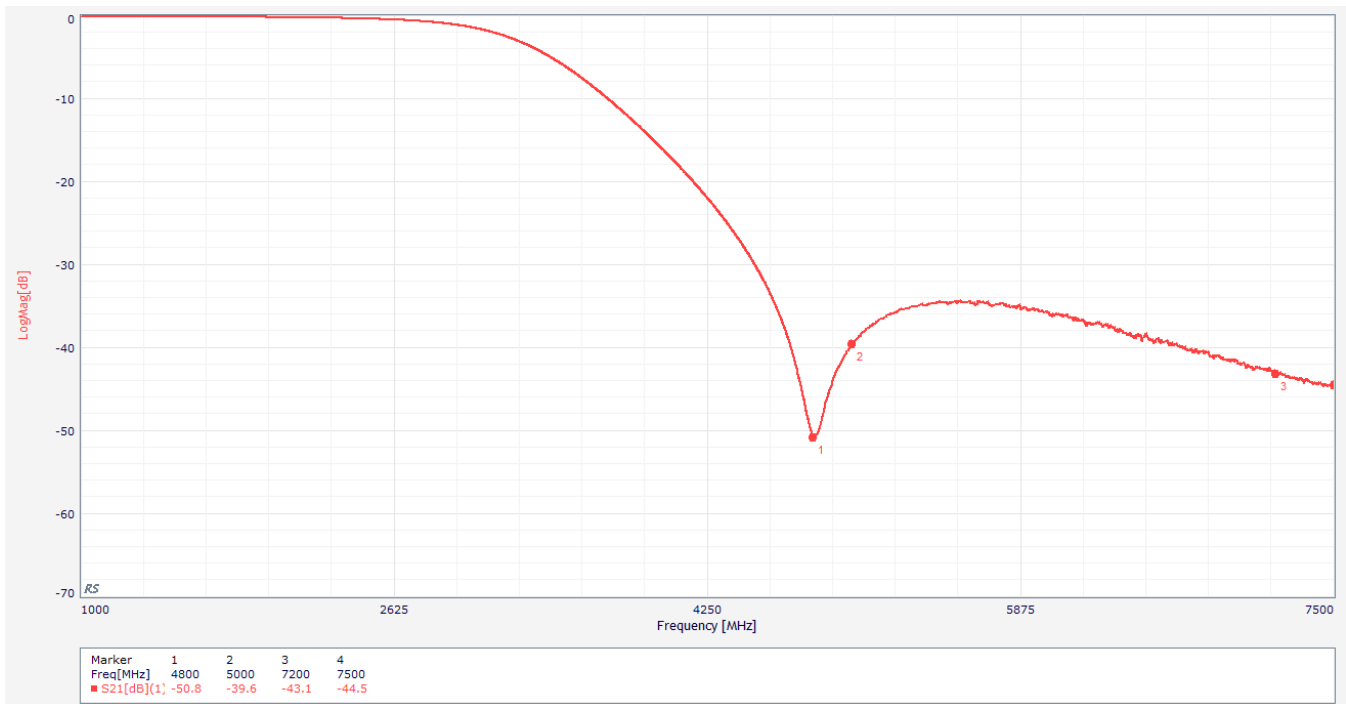
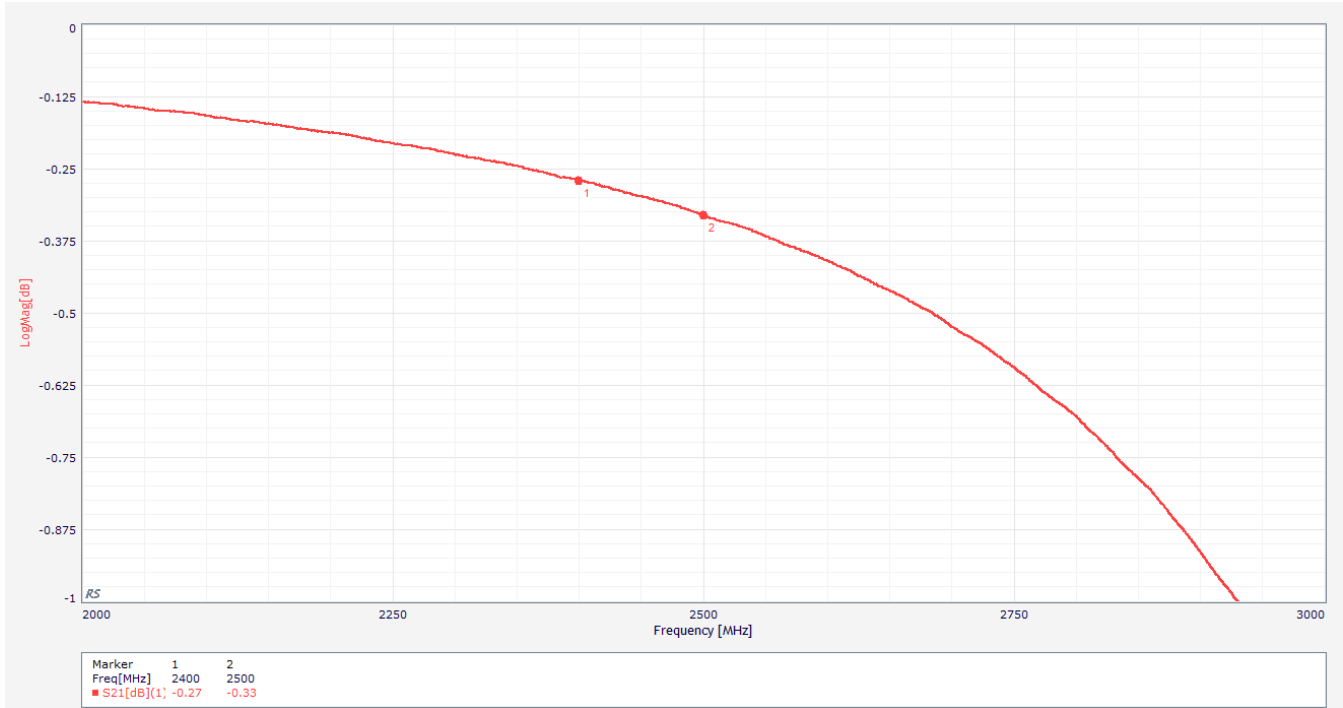
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. This component was always RoHS compliant from the first date of manufacture.

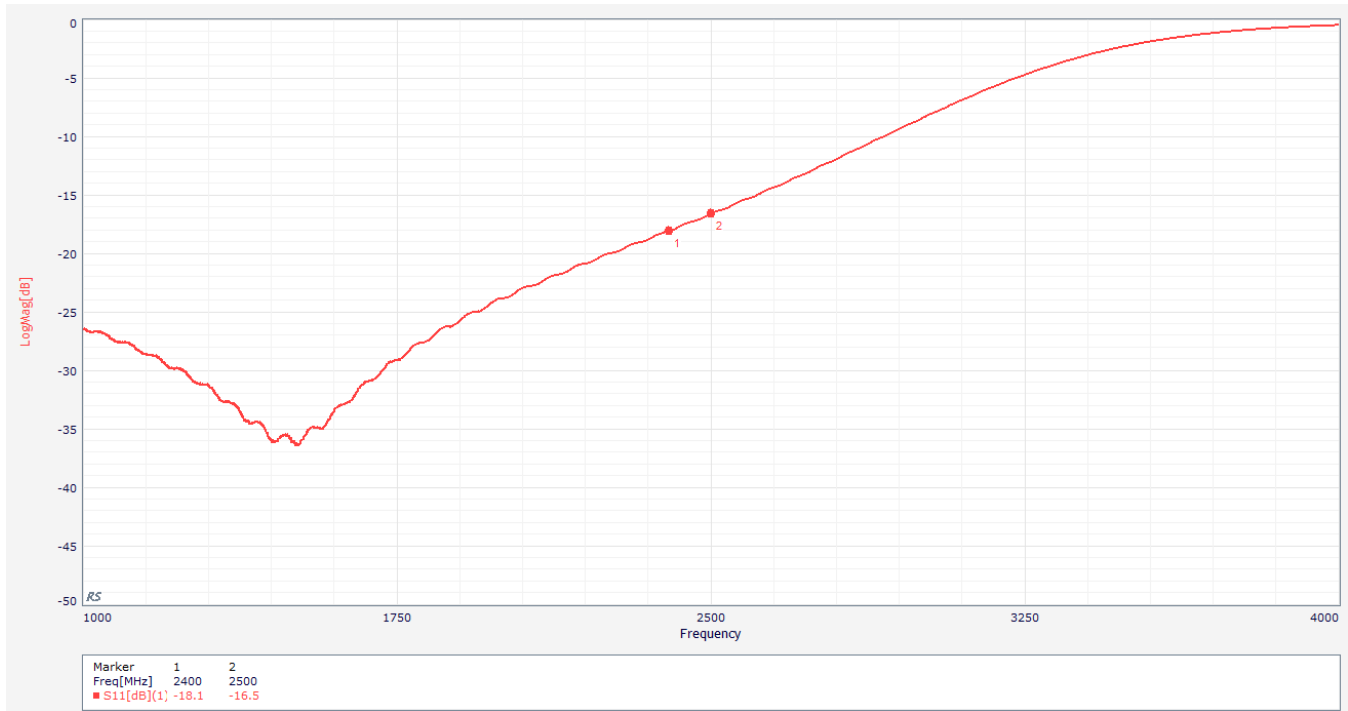
Frequency Characteristics

S21

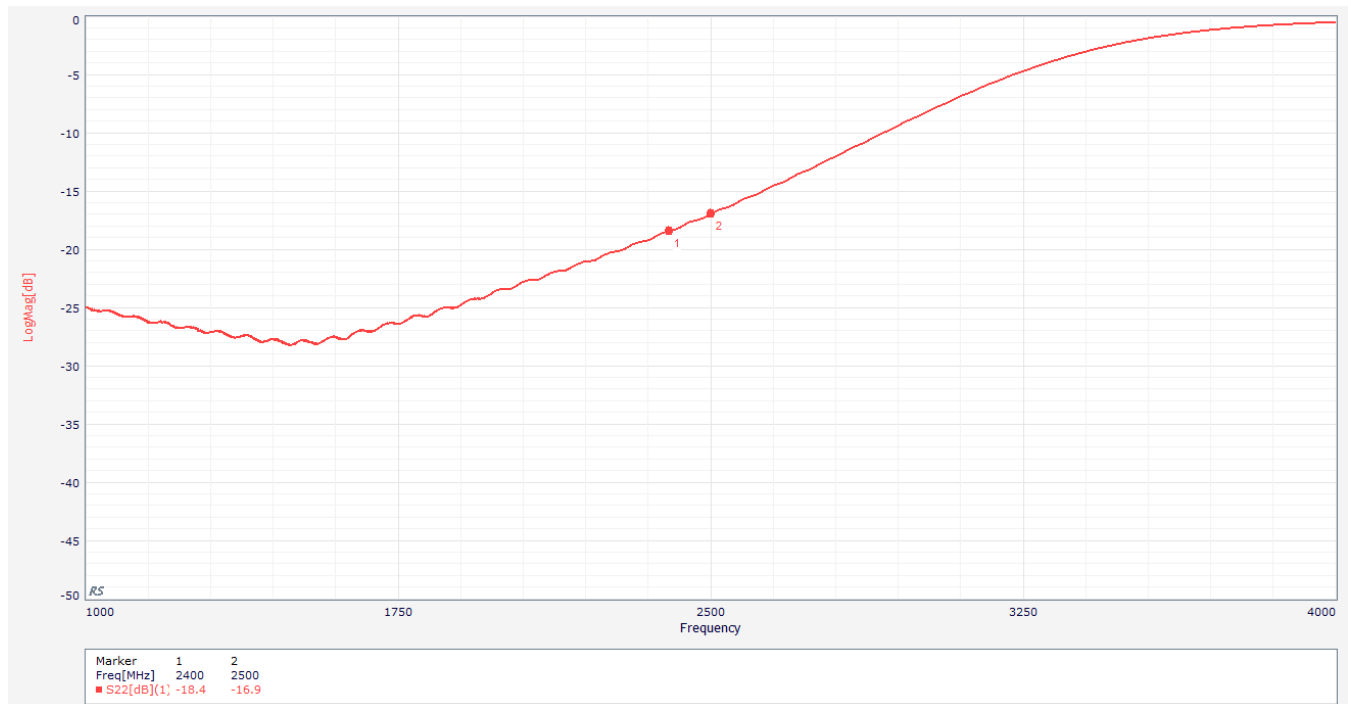


Frequency Characteristics

S11



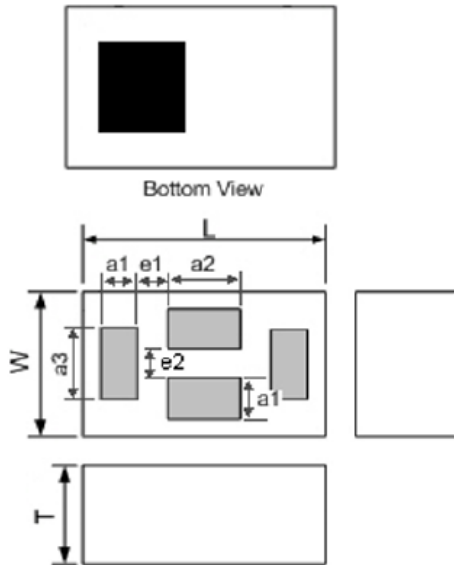
S22



Package Dimensions

E. Package Dimensions:

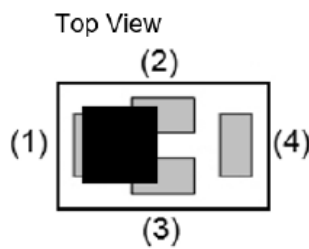
Outline



Dimension

| L | W | T | a1 |
|-----------|-----------|-----------|-----------|
| 1.60±0.15 | 0.80±0.10 | 0.60±0.10 | 0.25±0.10 |
| a2 | a3 | e1 | e2 |
| 0.40±0.10 | 0.55±0.10 | 0.23±0.05 | 0.15±0.05 |

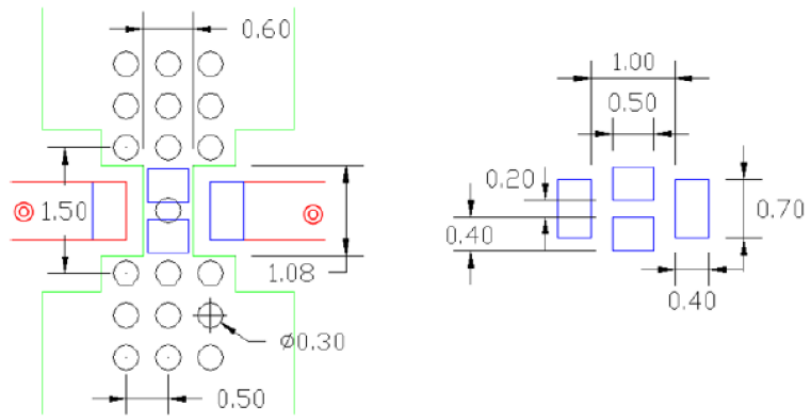
Termination



NOTE : Dimensions in mm.

| Terminal name | Function |
|---------------|----------|
| 1 | Input |
| 2 | GND |
| 3 | GND |
| 4 | Output |

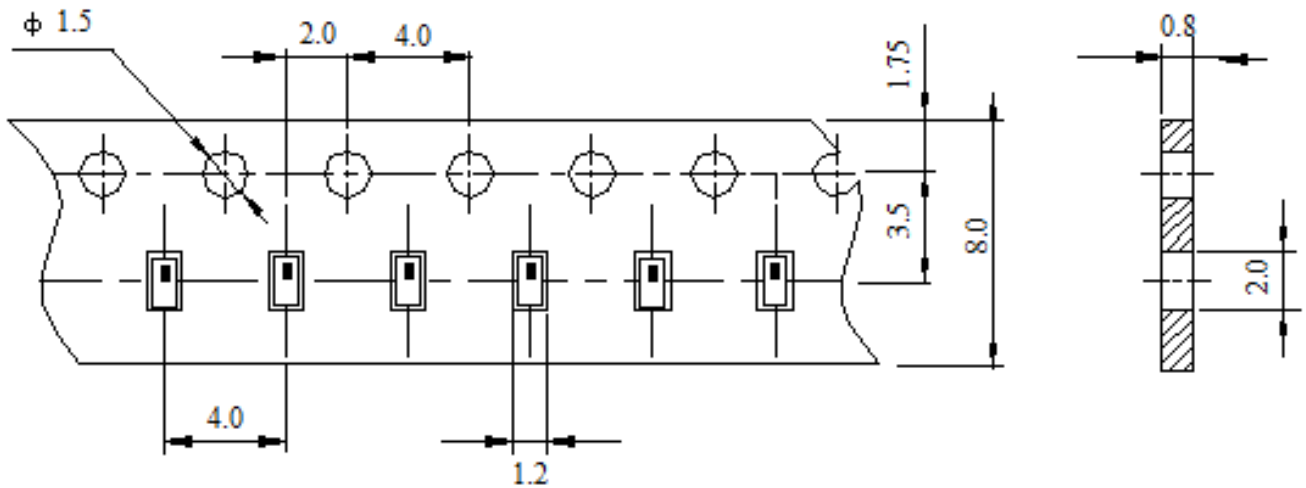
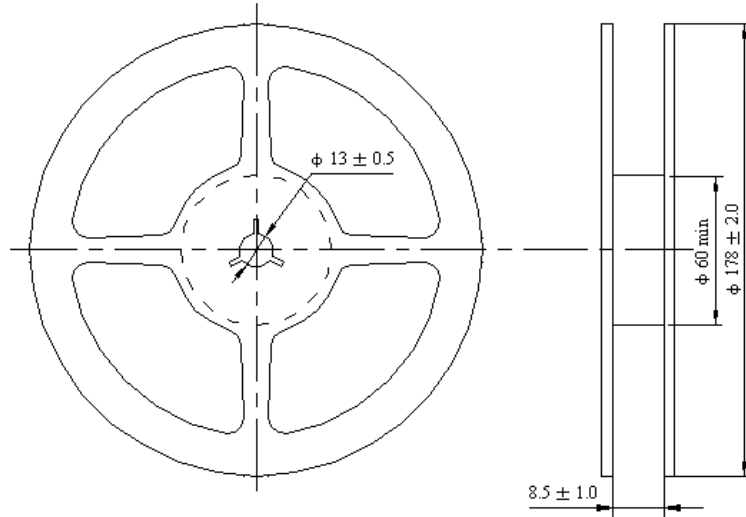
Recommended Footprint (PCB Layout)



Tape and Reel Specifications

Tape and Reel Standard per ANSI/EIA-481

Reel Dimensions – 7" = 4000



Recommended Reflow Profile

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (10 seconds).
4. Time: 5 times maximum.

