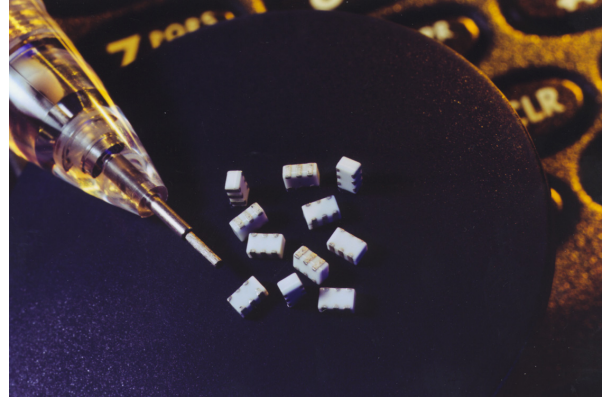


MULTILAYER CERAMIC DIPLEXER

DESCRIPTION

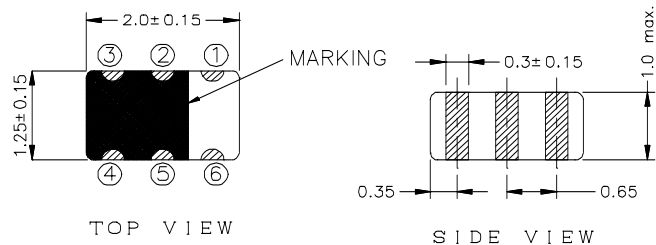
TOKO's LTF2012D is a multilayer ceramic diplexer for dual band mobile communication systems. It has low passband loss in both high and low bands. TOKO's proprietary ceramic multilayer material and process is utilized for excellent performance and exceptional reliability. Specific parts have been designed for common dual band systems, such as AMPS-PCS and GSM-DCS.



FEATURES

- Miniature footprint: 2.0 x 1.2mm
- Low profile: 1.0mm max.
- Integrated ceramic structure
- Operating temperature: - 55°C to + 125°C
- Reflow solderable

DIMENSIONS



| | | | | | |
|---|------|---|-----|---|------|
| 3 | GND | 2 | IN | 1 | GND |
| 4 | OUT2 | 5 | GND | 6 | OUT1 |

Units: mm

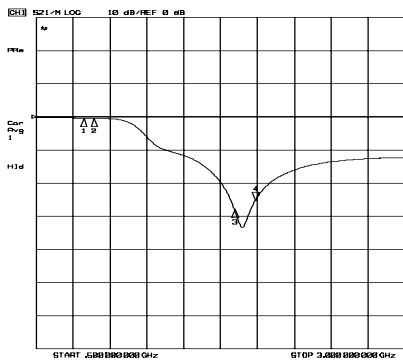
ELECTRICAL SPECIFICATIONS

| TOKO Part Number | LTF2012D-F17S | | LTF2012D-F25S | |
|------------------------------|---------------|---------------|---------------|---------------|
| | OUT1 (AMPS) | OUT2 (PCS) | OUT1 (GSM) | OUT2 (DCS) |
| Frequency Range | 824-894 MHz | 1850-1990 MHz | 880-960 MHz | 1710-1880 MHz |
| Attenuation @ Low Band (dB) | 0.45 max. | 19.0 min. | 0.5 max. | 20.0 min. |
| Attenuation @ High Band (dB) | 20.0 min. | 0.5 max. | 16.0 min. | 0.55 max. |
| Passband Return Loss (dB) | 12.0 min. | 12.0 min. | 12.0 min. | 12.0 min. |
| Impedance | 50 Ω | 50 Ω | 50 Ω | 50 Ω |

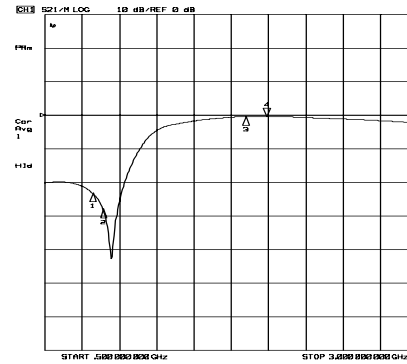
TYPICAL CHARACTERISTICS

LTF2012D-F17S

Attenuation at AMPS

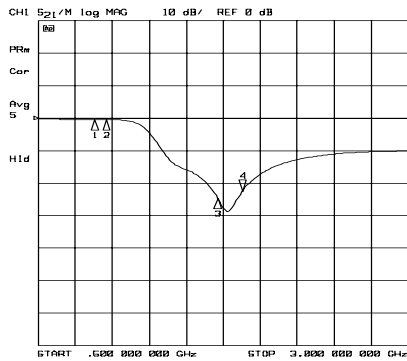


Attenuation at PCS

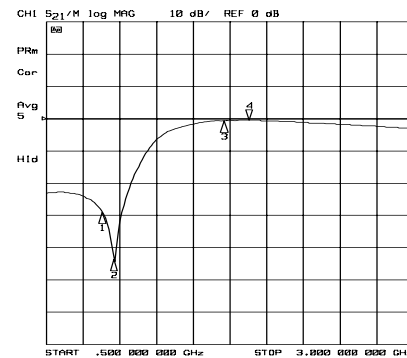


LTF2012D-F25S

Attenuation at EGSM



Attenuation at DCS



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