

DPM1747-1842-75A1

LTE Band-3 Ceramic Duplexer

Rev 4- Original Revision Date: January 19, 2015 – Revision Date: August 06, 2015

Features

- Low Insertion Loss
- High Attenuation
- Compact Size
- Surface Mount

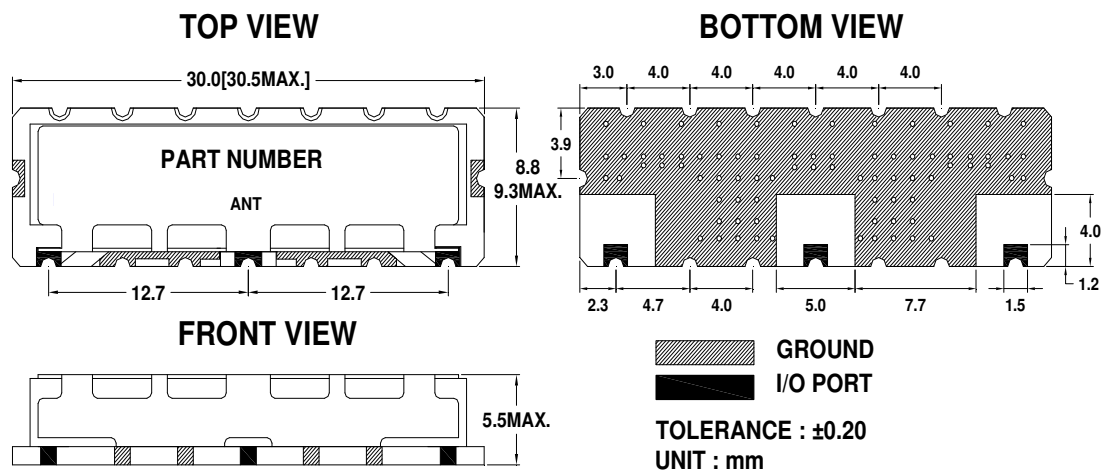
Descriptions

Surface mount ceramic duplexer developed for LTE band-3 applications.

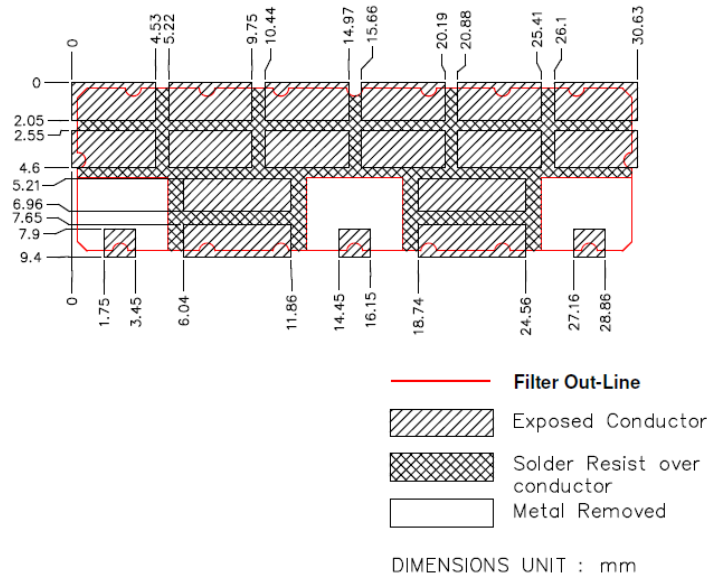
Electrical Specifications

| Parameter | Unit | Specification | |
|--------------------------------|------|-------------------------------|-------------------------------|
| | | LOW | HIGH |
| Center Frequency | MHz | 1747.5 | 1842.5 |
| Passband Frequency Range | MHz | $F_c \pm 37.5$ (1710~1785MHz) | $F_c \pm 37.5$ (1805~1880MHz) |
| Insertion Loss in Passband | dB | 3.6 max | 3.6 max |
| Ripple in Passband | dB | 2.5 max | 2.5 max |
| Return Loss (VSWR) in Passband | dB | 12.0 min | 12.0 min |
| Attenuation | dB | 30 min @ 1805~1880MHz | 30 min @ 1710~1785MHz |
| Isolation | dB | 30 min | |
| Power Handling | Watt | 2 max | |
| In/Out Impedance | Ohm | 50 | |
| Operating Temperature | °C | -40 ~ +85 | |
| Dimensions (max) | mm | 30.5 x 9.3 x 5.5 (L x W x H) | |

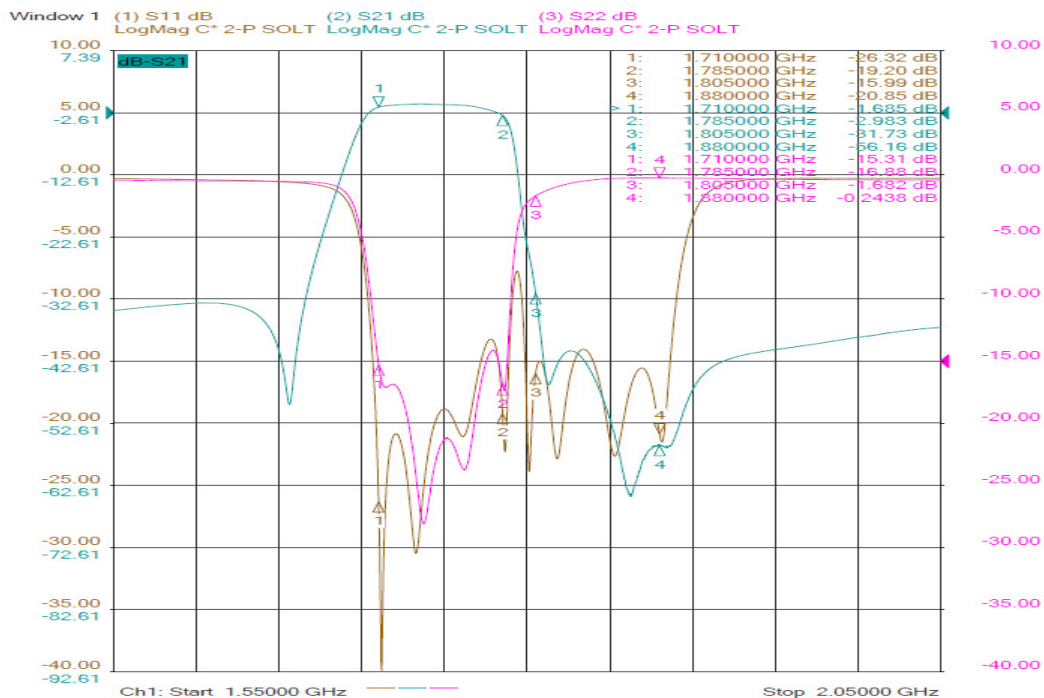
Mechanical Drawing



Recommended PCB Layout



Electrical Response



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