

Description: 1608 2.4G&5GHz Diplexer

PART NUMBER: DPX1608LL83R2455A

Features:

- Compact size : 1.6x0.8x0.6mm
- RoHS compliant

Applications:

- WLAN, 802.11a/b/g/n
- ISM Band

ELECTRICAL SPECIFICATIONS

| DESCRIPTION | Value | |
|------------------------------|-----------------------------|---------------------------------|
| | Low Band | High Band |
| Pass Band | 2400 ~ 2500 MHz | 4900 ~ 5950 MHz |
| Insertion Loss | 0.5 dB (Max.) | 1.0 dB (Max.) |
| Return Loss | 10dB (Min.) | 10dB (Min.) |
| Attenuation | 25 dB(Min).@4800 ~ 5000 MHz | 32 dB(Min). @ 30 ~ 2700 MHz |
| | 25 dB(Min).@7200 ~ 7500 MHz | 15 dB(Min). @ 9800 ~ 11900 MHz |
| | | 11 dB(Min). @ 14700 ~ 17850 MHz |
| Operating Temperature | -40 ~ 85°C | |

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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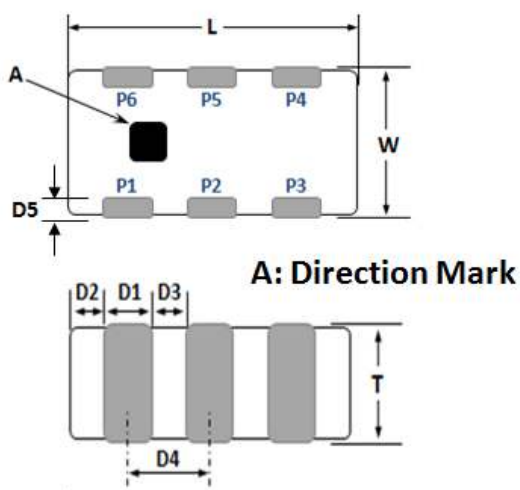
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MECHANICAL DIMENSION

Outline



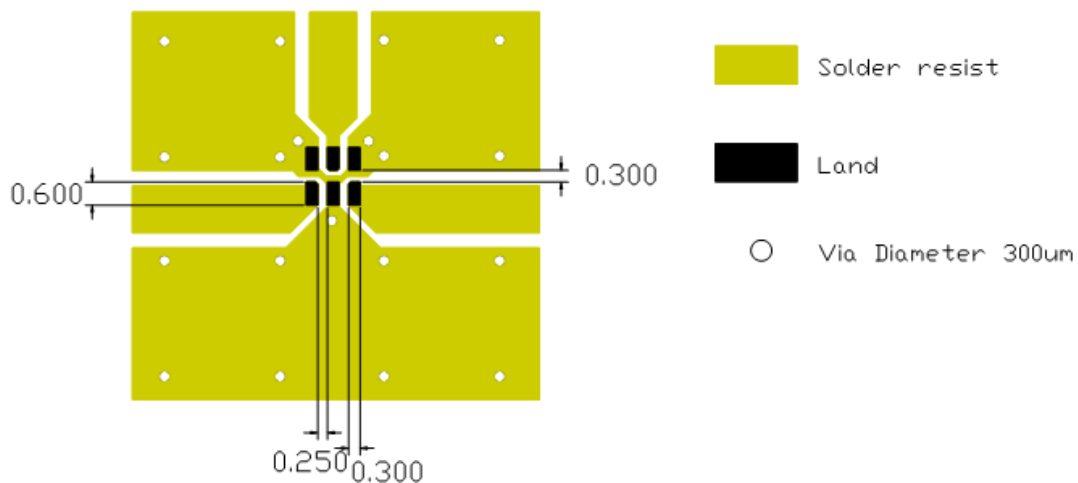
Termination

| Terminal name | Function |
|---------------|-----------|
| P1 | GND |
| P2 | Common |
| P3 | GND |
| P4 | High band |
| P5 | GND |
| P6 | Low band |

Mechanical

| | Dimension |
|---------|-----------|
| L (mm) | 1.60±0.15 |
| W (mm) | 0.80±0.15 |
| T (mm) | 0.60±0.15 |
| D1 (mm) | 0.20±0.10 |
| D2 (mm) | 0.20±0.15 |
| D3 (mm) | 0.30±0.10 |
| D4 (mm) | 0.50±0.05 |
| D5 (mm) | 0.15±0.10 |

Reference design of EVB



Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

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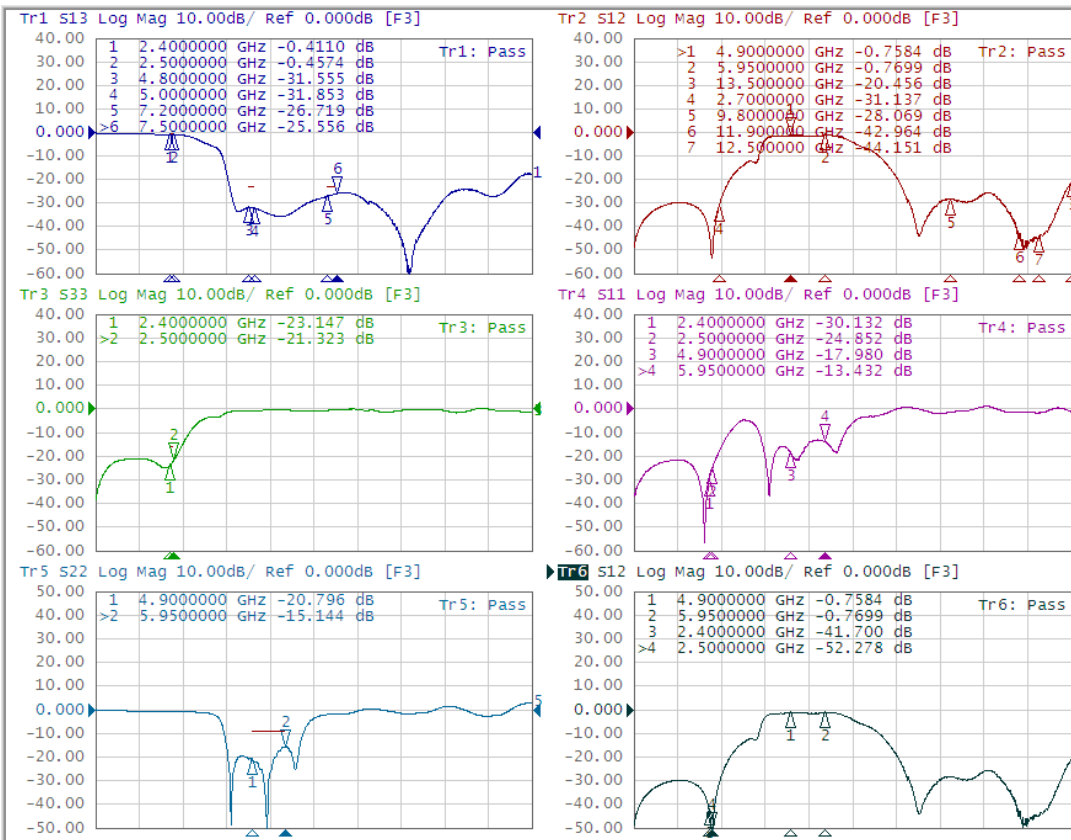
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ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer
- Common port : Port 1 (Return loss : S22)
- Low band port : Port 3 (Low band Insertion loss S13, and attenuation at high band)
- High band port : Port 2 (High band Insertion loss S12, and attenuation at low band)

Frequency Characteristics

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REVISION HISTORY

| Revision | Date | Description |
|-----------|---------------|-------------|
| Version 1 | Oct. 06, 2020 | - New issue |