

Description : 1608 2.4G&5-7GHz Diplexer

PART NUMBER: DPX1608LL60R2460A

Features:

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

Applications:

- WLAN, 802.11a/b/g/n/ax
- WiFi 6E
- ISM Band

ELECTRICAL SPECIFICATIONS

| DESCRIPTION | VALUE | |
|-----------------------|---|---|
| Pass Band | Low Band | High Band |
| | 2400~2500MHz | 5170~7125MHz |
| Insertion Loss | 0.50dB (Max) | 0.9dB (Max) |
| Return Loss | 12.0dB (Min) | 10.0dB (Min) |
| Attenuation | 28dB(Min). @4800~5000MHz 25dB(Min). @5170~7125MHz 30dB(Min). @7200~7500MHz 27dB(Min). @9600~10000MHz 20dB(Min). @12000~12500MHz | 28dB(Min). @500~2300MHz 30dB(Min). @2300~2690MHz 10dB(Min). @3400~3800MHz 25dB(Min). @10340~14250MHz 20dB(Min). @15510~18500MHz 15dB(Min). @18500~21375MHz |
| Isolation | 30dB(Min). @2400~2500MHz 25dB(Min). @4800~5950MHz | |
| 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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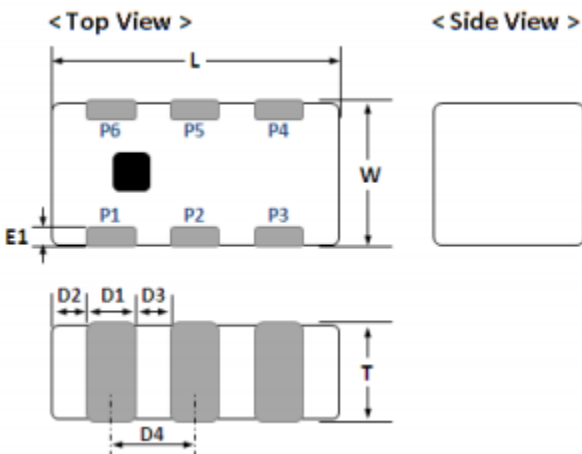
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MECHANICAL DIMENSION

Outline



Termination

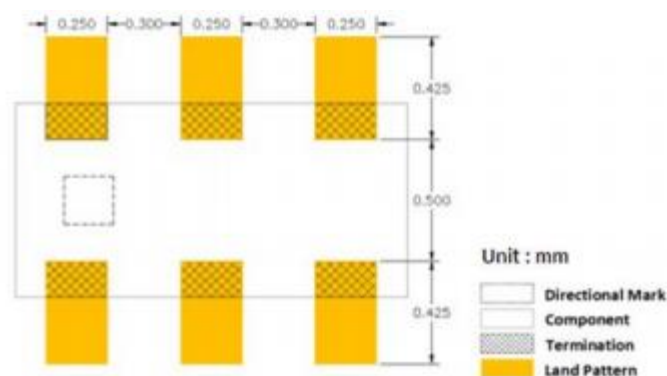
| Terminal name | Function |
|---------------|-----------|
| P1 | GND |
| P2 | Common |
| P3 | GND |
| P4 | Low band |
| P5 | GND |
| P6 | High band |

Mechanical

| Dimension |
|-----------|
| L (mm) |
| W(mm) |
| T(mm) |
| D1(mm) |
| D2(mm) |
| D3(mm) |
| D4(mm) |
| E1(mm) |

Reference design of EVB

Recommended Land Pattern



Recommended PCB Pattern



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

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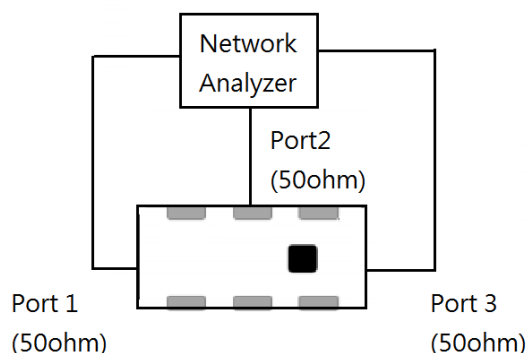
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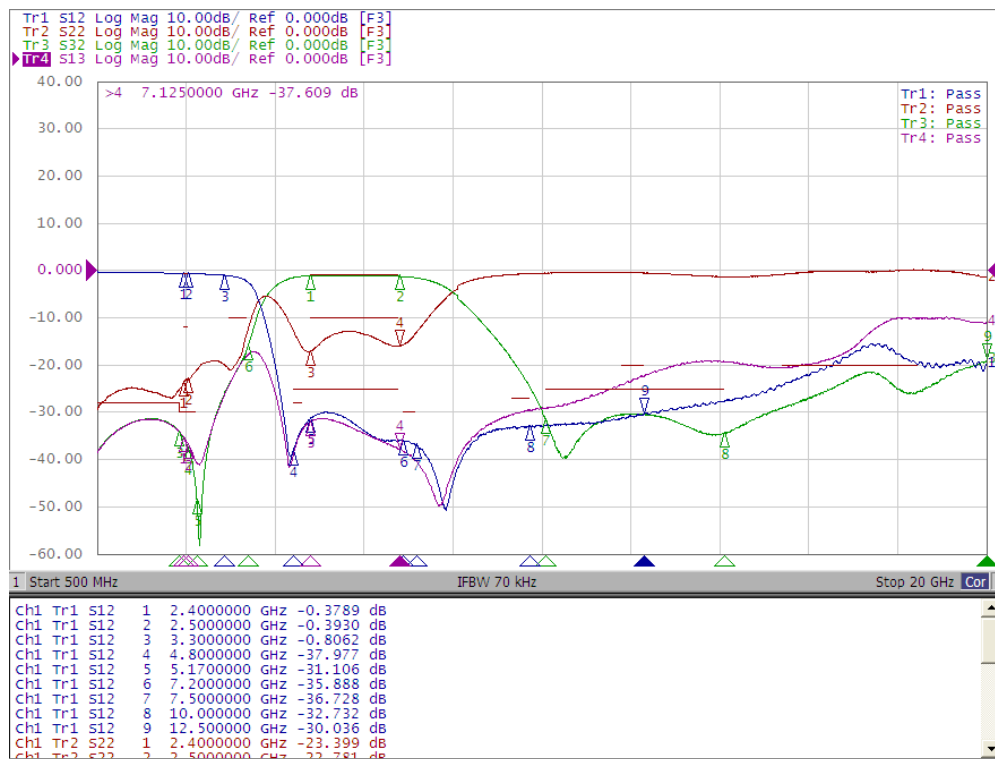
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MEASURING DIAGRAM



Test Instrument :
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer

Description: 1608 2.4G&5-7GHz Diplexer**PART NUMBER:** DPX1608LL60R2460A**REVISION HISTORY**

| Revision | Date | Description |
|-----------|---------------|---------------------------------|
| Version 1 | Oct. 06, 2020 | - New issue |
| Version 2 | Jan. 29, 2021 | - Update electrical requirement |
| Version 3 | Jan. 07, 2023 | - Update electrical requirement |

Mouser Electronics

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