

Description: 1608 Diplexer

PART NUMBER: DPX1608LWFPR2455L

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- LTE

ELECTRICAL SPECIFICATIONS

| Item | Frequency Range | Insertion Loss | Return Loss | Stop-Band Attenuation |
|---------------------------|-----------------|----------------|---------------|-----------------------------|
| Common to Low Freq. Port | 2400~2500 MHz | 0.4 dB max. | 12.74 dB min. | 20 dB min. at 4900~5850 MHz |
| Common to High Freq. Port | 4900~5850 MHz | 0.6 dB max. | 10.16 dB min. | 20 dB min. at 2400~2500 MHz |
| Common Port | 2400~2500 MHz | - | 12.74 dB min. | - |
| | 4900~5850 MHz | - | 10.16 dB min. | - |

Operating Temperature Range : -40~85°C
Power Capacity : 3W max.

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

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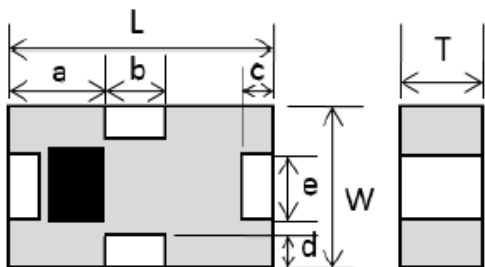


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MECHANICAL DIMENSION

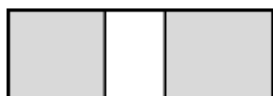
Outline



Dimension

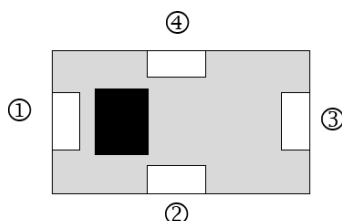
| L | W | T | a |
|--------------------|--------------------|--------------------|--------------------|
| 1.60±0.10 | 0.80+0.20 -0.10 | 0.60+0.05 -0.10 | 0.65±0.15 |
| b | c | d | e |
| 0.30+0.10 -0.15 | 0.15±0.10 | 0.15±0.10 | 0.30+0.10 -0.15 |

NOTE : Dimensions in mm.



Termination

Top View

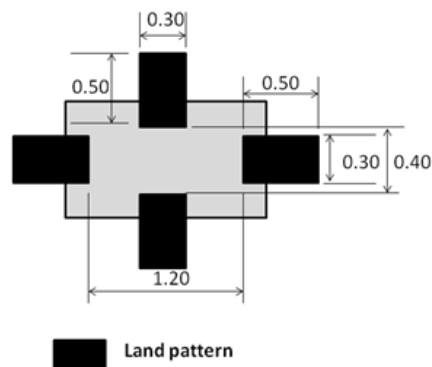
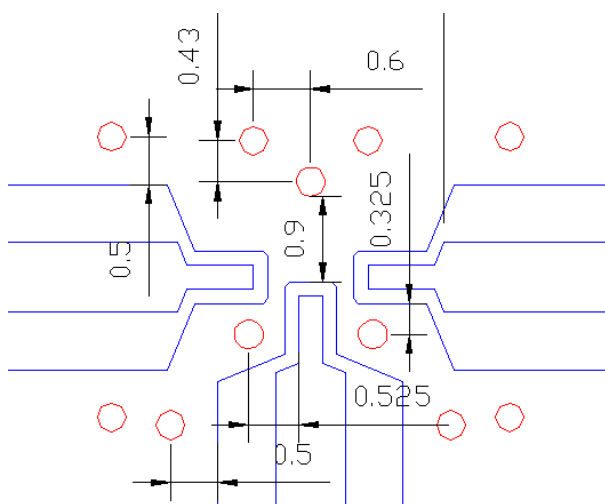


Terminal name

Function

| | |
|---|-----------|
| 1 | High band |
| 2 | Common |
| 3 | Low band |
| 4 | GND |

Reference design of EVB



Unit : mm

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

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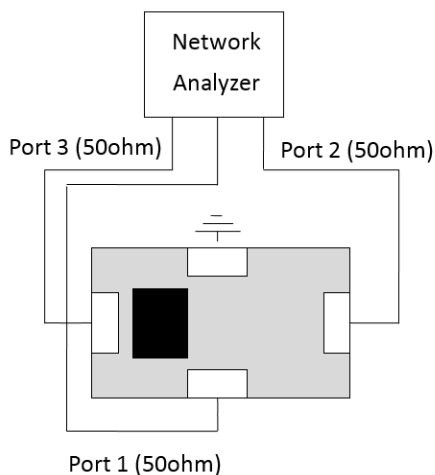
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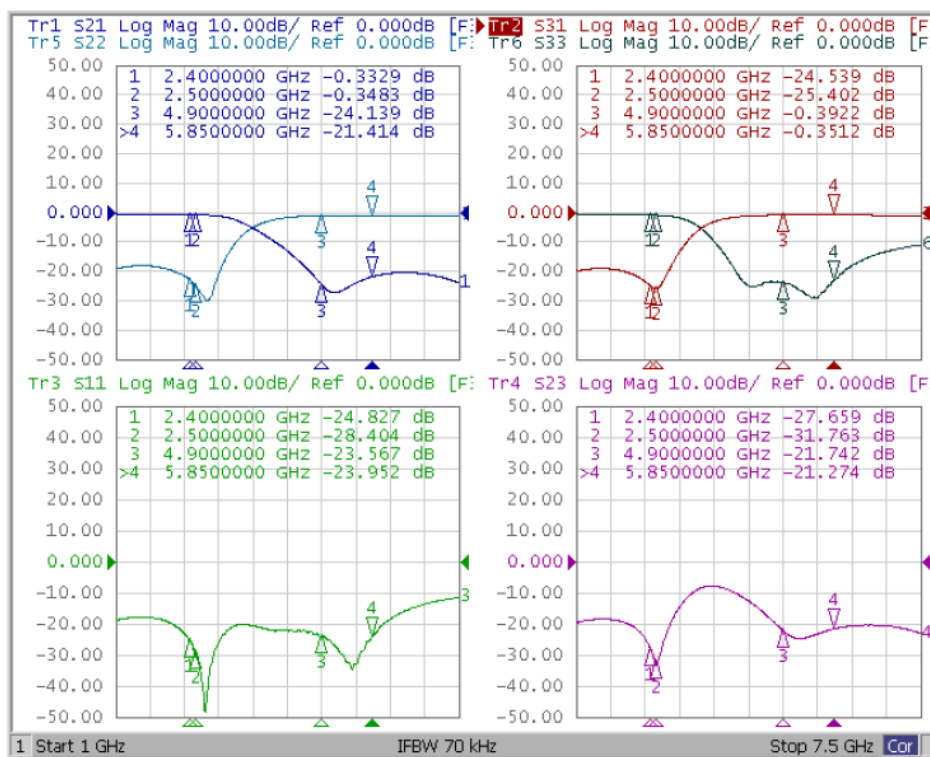
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MEASURING DIAGRAM



Test Instrument :
Agilent E5071C Network Analyzer or equivalent.

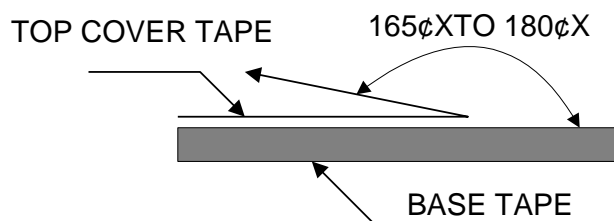
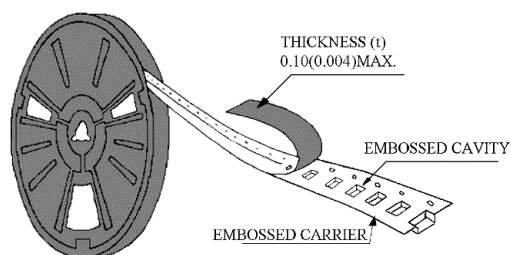
ELECTRICAL PERFORMANCES



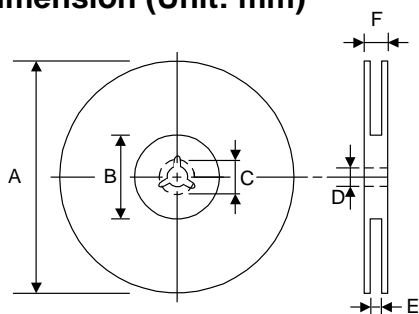
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Description: 1608 Diplexer
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PACKING SPECIFICATION
Peel-off force


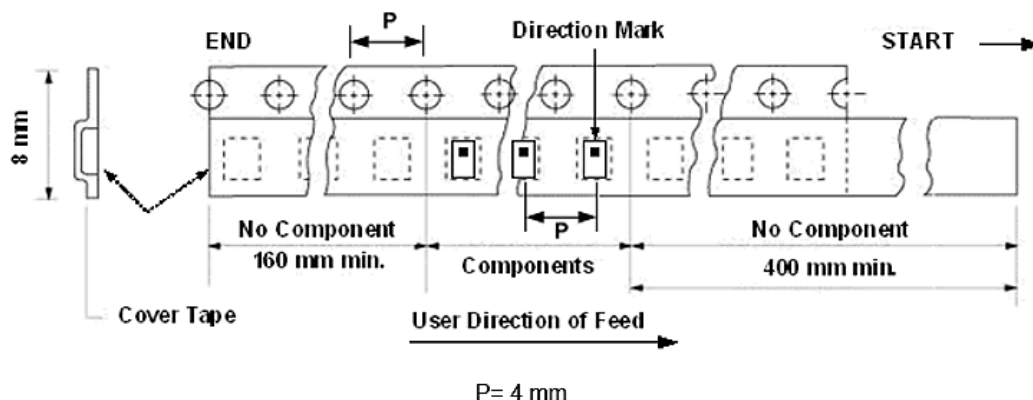
The force for peeling of cover tape is 10 grams in the arrow direction.

Dimension (Unit: mm)


| TYPE | A | B | C | D | E | F |
|-------|---------|--------------|----------|----------|----------|--------|
| 8 mm | 178±1 | 60+0.5 -0 | - | 13±0.2 | 9±0.5 | 12±0.5 |
| 12 mm | 178±0.3 | 60±0.2 | 19.3±0.1 | 13.5±0.1 | 13.6±0.1 | - |

Taping quantity

| SERIES | 5824 5724 | 5320 5220 | 4532 | 4516 | 3225 | 3216 2520 | 2012 1608 | 1005 0605 |
|----------|--------------|--------------|------|------|------|--------------|--------------|--------------|
| PCS/Reel | 5000 | 3000 | 1000 | 2000 | 2500 | 3000 | 4000 | 10000 |



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Description: 1608 Diplexer**PART NUMBER:** DPX1608LWFPR2455L**REVISION HISTORY**

| Revision | Date | Description |
|-----------|---------------|-------------|
| Version 1 | Jun. 22, 2022 | - New issue |

Mouser Electronics

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