

**Description: 1608 Diplexer**
**PART NUMBER: DPX1608LKEFR2455L**
**Features:**

- Compact Size
- Low loss
- High Soldering Heat Resistance

**Applications:**

- WiFi

**ELECTRICAL SPECIFICATIONS**
**Low-Band**

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400~2500	-	0.73	0.85
Insertion Loss(dB) at -40~85°C	2400~2500	-	-	0.95
Return Loss (dB)	2400~2500	13	18.4	-
Attenuation (dB)	30~1000	15	22.7	-
	4800~7125	30	32.5	-
	7200~7500	30	34.9	-
	7500~12000	20	28.8	-

**High-Band**

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	5150~5875	-	0.84	1.20
Insertion Loss (dB) at -40~85°C	5150~5875	-	-	1.45
Return Loss (dB)	5150~5875	13	21.5	-
Attenuation (dB)	100~2300	30	33.2	-
	2400~2500	40	44.1	-
	2700~3500	15	23.7	-
	10300~11750	20	23.0	-
	15450~17625	20	25.0	-

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 Tel: 86 512 6807 9998



**Description:** 1608 Diplexer**PART NUMBER:** DPX1608LKEFR2455L**ELECTRICAL SPECIFICATIONS****Common**

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Return Loss (dB)	2400~2500	13	24.4	-
	5150~5875	13	21.2	-

**Isolation**

Item	Frequency Range(MHz)	Min.	Typ.	Max.
High to Low (dB)	2400~2500	40	49.1	-
	4800~5000	25	34.4	-

Operating Temperature Range : -40~85°C

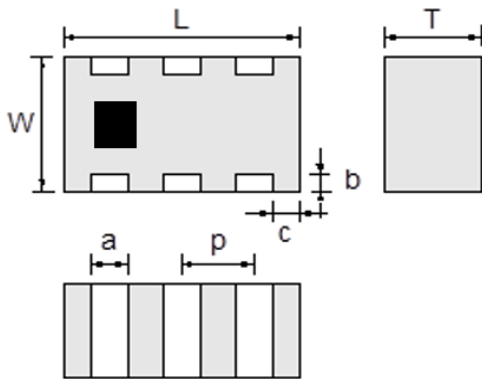
Power Capacity : 3W max.

## Description: 1608 Diplexer

**PART NUMBER: DPX1608LKEFR2455L**

### MECHANICAL DIMENSION

#### Outline



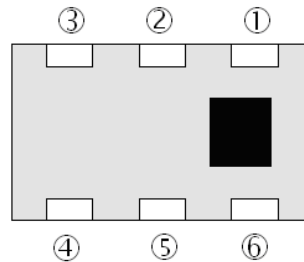
#### Dimension

L	W	T	a
1.60±0.15	0.80±0.10	0.70 max.	0.20±0.10
b	c	p	
0.15±0.10	0.20±0.15	0.50±0.05	

NOTE : Dimensions in mm.

#### Termination

##### Top View

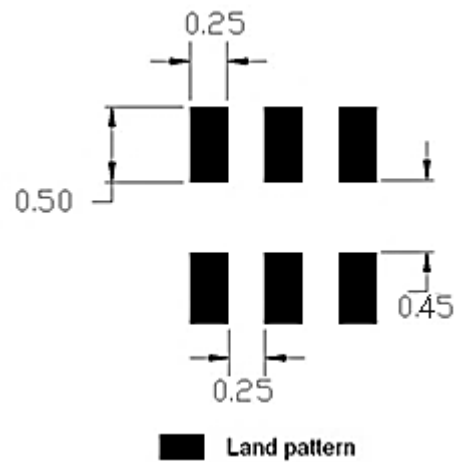
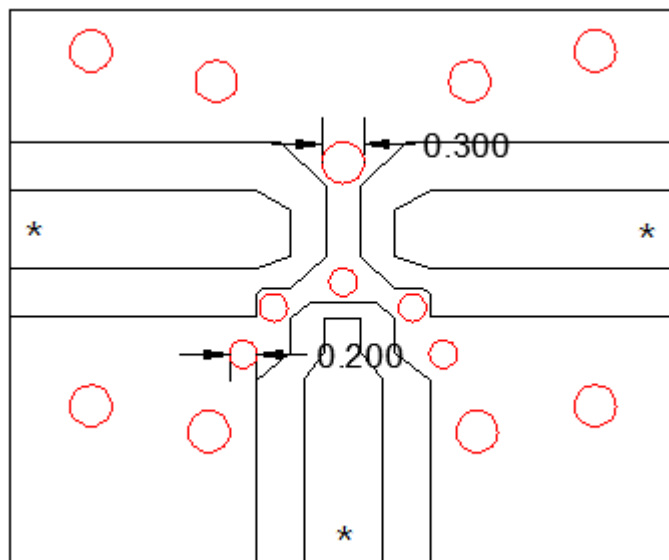


##### Terminal name

##### Function

1	High band
2	GND
3	Low band
4	GND
5	Common
6	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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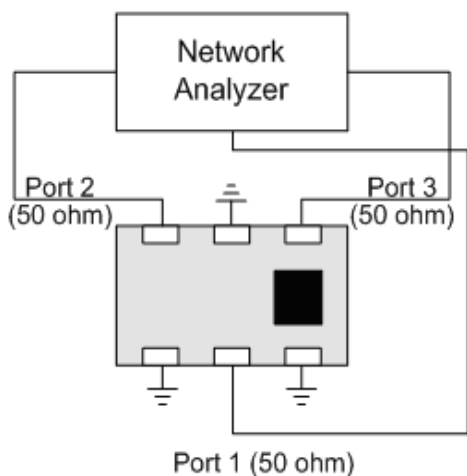
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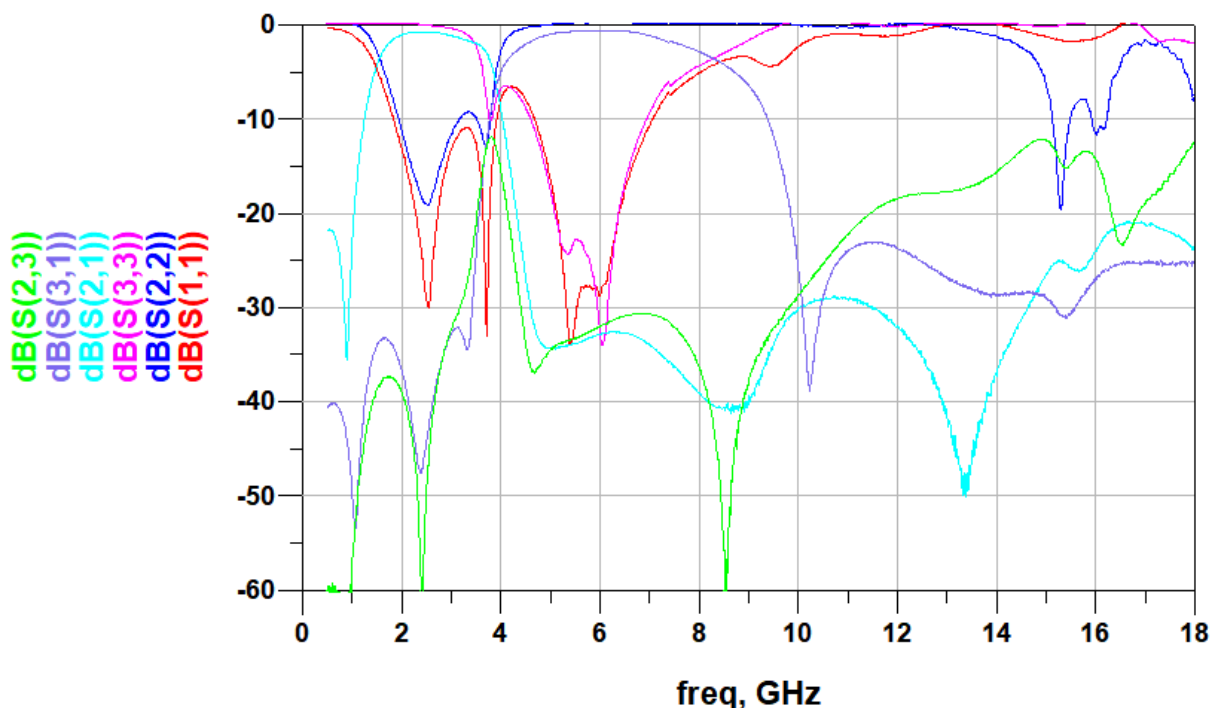
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## MEASURING DIAGRAM



Test Instrument :  
Agilent E5071C Network Analyzer or equivalent.

## ELECTRICAL PERFORMANCES



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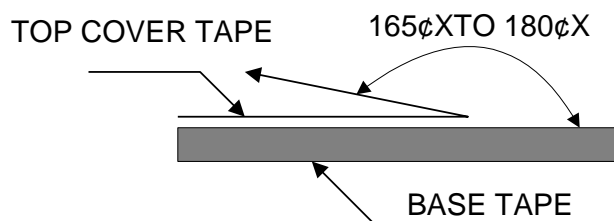
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### PART NUMBER: DPX1608LKEFR2455L

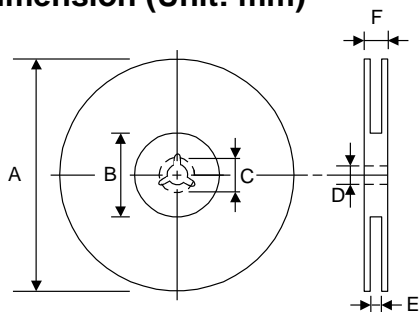
## PACKING SPECIFICATION

### Peel-off force



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

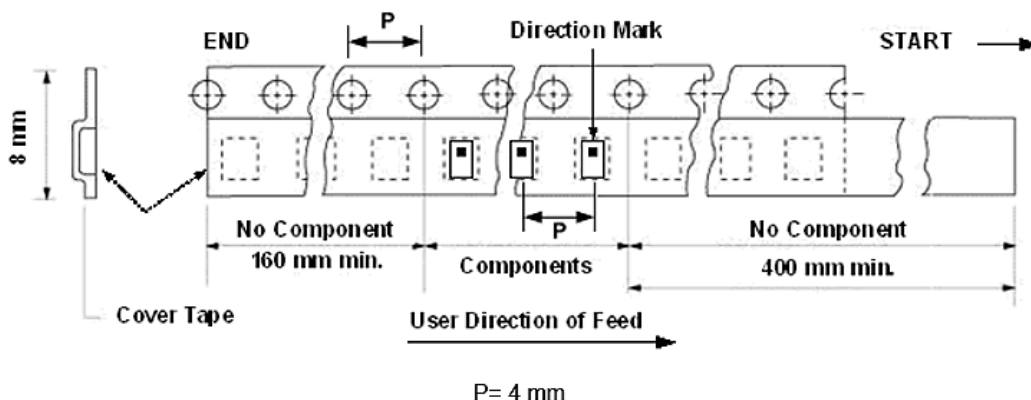
### Dimension (Unit: mm)



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:** DPX1608LKEFR2455L**REVISION HISTORY**

Revision	Date	Description
Version 1	Sep. 02, 2022	- New issue

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