

**Description: 1608 Diplexer**
**PART NUMBER: DPX1608LKU5R2455A**
**Features:**

- Compact Size
- Low loss
- High Soldering Heat Resistance

**Applications:**

- For wireless application

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

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400~2500	-	0.66	0.75
Insertion Loss (dB) at -40~85°C	2400~2500	-	-	0.90
Return Loss (dB)	2400~2500	13	22.7	-
Attenuation (dB)	1200~1250	10	16.1	-
	1570~1600	10	16.2	-
	4800~6000	25	32.0	-
	7200~7500	25	34.6	-
	9600~10000	25	41.5	-

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For more information:

Pulse Worldwide Headquarters  
 15255 Innovation Drive #100  
 San Diego, CA 92128  
 USA  
 Tel: 1-858-674-8100

Pulse/Larsen Antennas  
 18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
 Vancouver, WA 98683  
 USA  
 Tel: 1-360-944-7551

Europe Headquarters  
 Pulse GmbH & Do, KG  
 Zeppelinstrasse 15  
 Herrenberg, Germany  
 Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.  
 99 Huo Ju Road(#29 Bldg, 4<sup>th</sup> Phase  
 Suzhou New District  
 Jiangsu Province, Suzhou 215009 PR China  
 Tel: 86 512 6807 9998



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### ELECTRICAL SPECIFICATIONS

#### High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	4900~5100	-	1.16	1.5
	5150~5950	-	0.99	1.2
Insertion Loss (dB) at -40~85°C	4900~5100	-	-	1.7
	5150~5950	-	-	1.4
Return Loss (dB)	4900~5100	13	19.7	-
	5150~5950	13	21.0	-
Attenuation (dB)	1610~2000	30	45.0	-
	2400~2500	28	42.0	-
	3300~3800	30	34.6	-
	9800~12000	20	30.1	-
	14200~18000	20	28.2	-

#### Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return Loss (dB)	2400~2500	13	24.2	-
	4900~5950	13	20.1	-

#### Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Low to High (dB)	2400~2500	30	42.5	-
	4800~6000	25	31.7	-
	15000~18000	18	20.9	-

Operating Temperature Range : -40~85°C

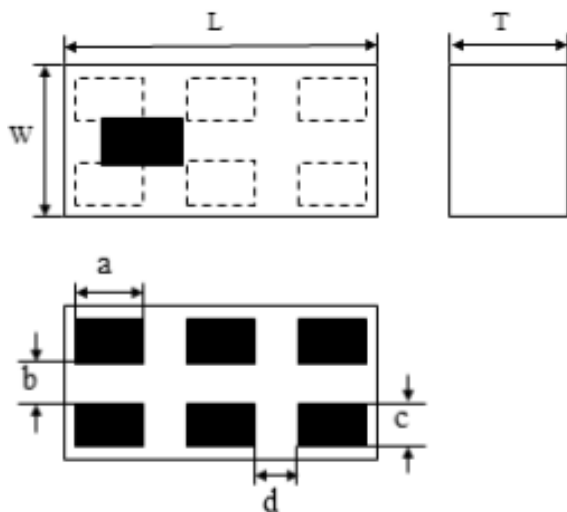
Power Capacity : 3W max.

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### MECHANICAL DIMENSION

#### Outline



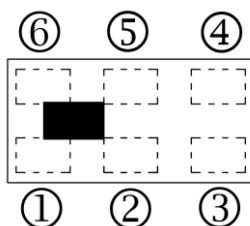
#### Dimension

L	W	T	A
1.60±0.10	0.80±0.10	0.70 max.	0.35±0.05
B	C	D	
0.22±0.05	0.225±0.05	0.22±0.05	

NOTE : Dimensions in mm.

#### Termination

Top View

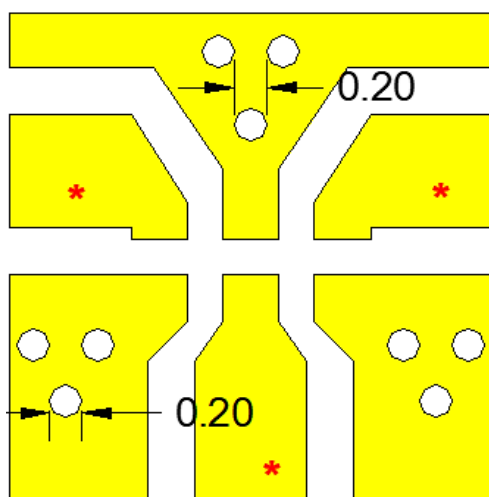


#### Terminal name

#### Function

1	Low band
2	GND
3	High 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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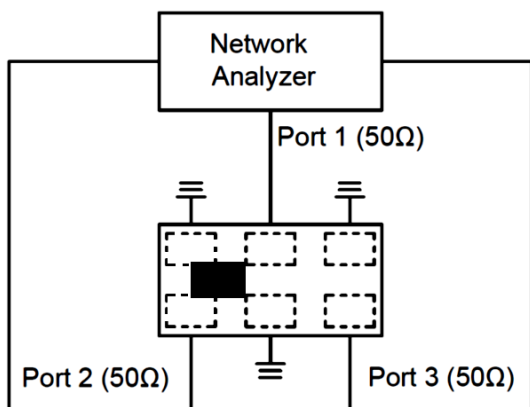
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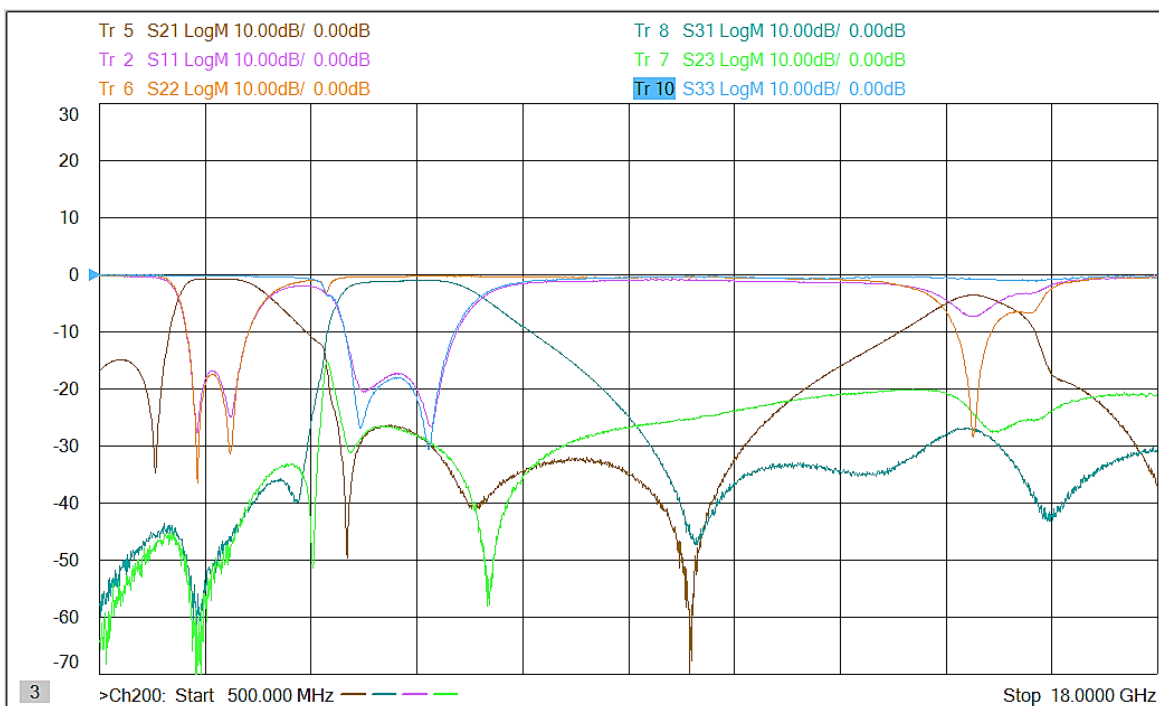
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### MEASURING DIAGRAM



Test Instrument :  
Agilent E5071C Network Analyzer or equivalent.

### ELECTRICAL PERFORMANCES



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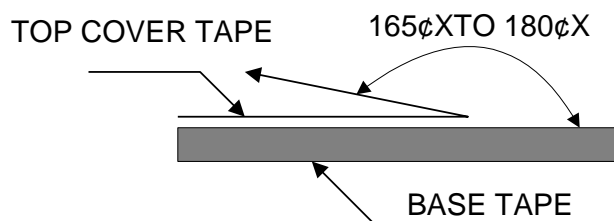
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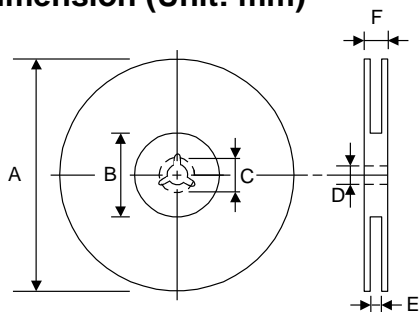
### PACKING SPECIFICATION

#### Peel-off force



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

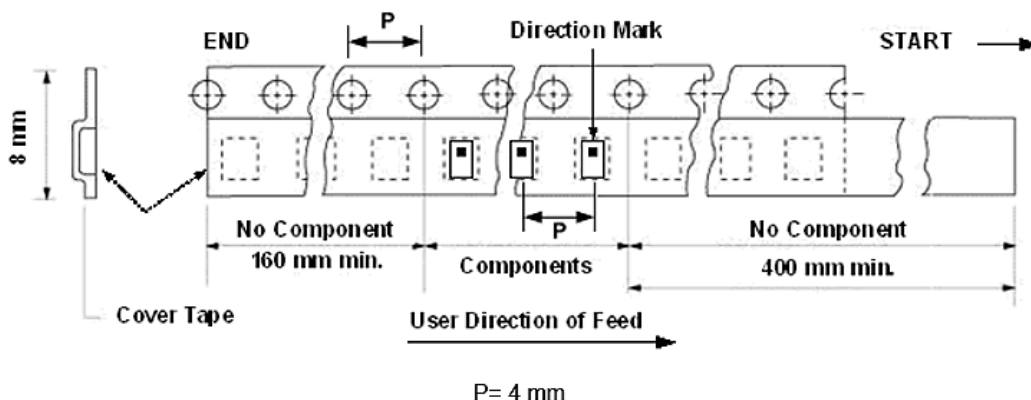
#### Dimension (Unit: mm)



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:** DPX1608LKU5R2455A**REVISION HISTORY**

Revision	Date	Description
Version 1	Mar. 24, 2022	- New issue

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