

Description: 1608 Diplexer

PART NUMBER: DPX1608LKG8R2460A

**Features:**

- Compact Size
- Low loss
- High Soldering Heat Resistance

**Applications:**

- Dual-band WLAN
- WiFi6E

**ELECTRICAL SPECIFICATIONS**

**Low-Band**

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	2400~2500	-	1.0	1.2
Return loss (dB)	2400~2500	10	20.0	-
Attenuation (dB)	700-1300	15	18.2	-
	4700-4900	28	31.9	-
	7100-7400	28	31.5	-

**High-Band**

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	5150~7125	-	1.46	1.7
Return loss (dB)	5150~7125	10	12.3	-
Attenuation (dB)	1600-2000	20	25.0	-
	2300-3000	20	26.2	-
	7700-9400	8	13.7	-
	10300-14500	25	29.0	-
	15400-21700	15	23	-

**Common**

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return loss (dB)	2400~2500	10	23.8	-
	5150~7125	10	12.2	-

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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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

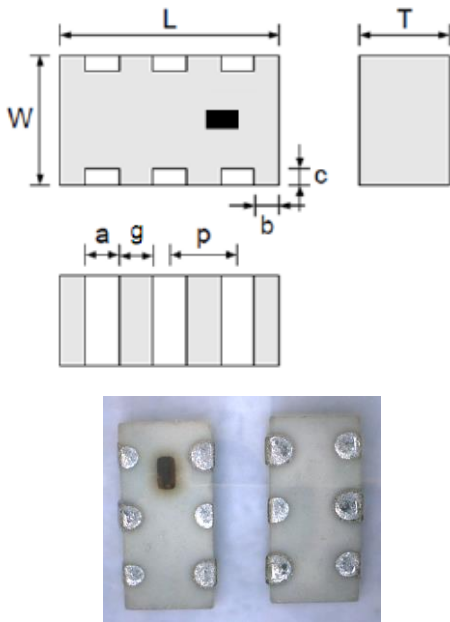


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MECHANICAL DIMENSION

Outline



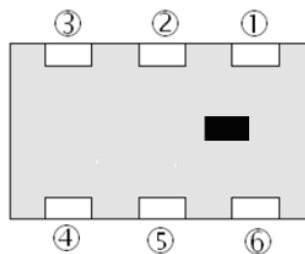
Dimension

L	W	T	a
1.60±0.10	0.80±0.10	0.70 max.	0.20±0.10
b	c	g	p
0.20±0.15	0.15±0.10	0.30±0.10	0.50±0.05

NOTE : Dimensions in mm.

Termination

Top View

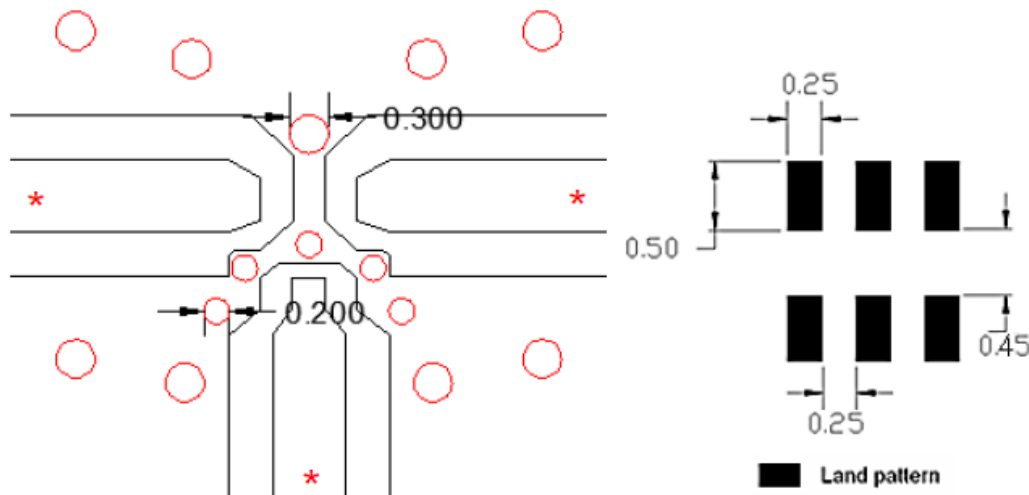


Terminal name

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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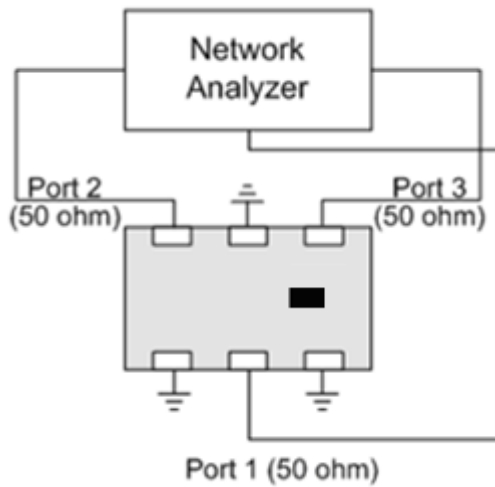
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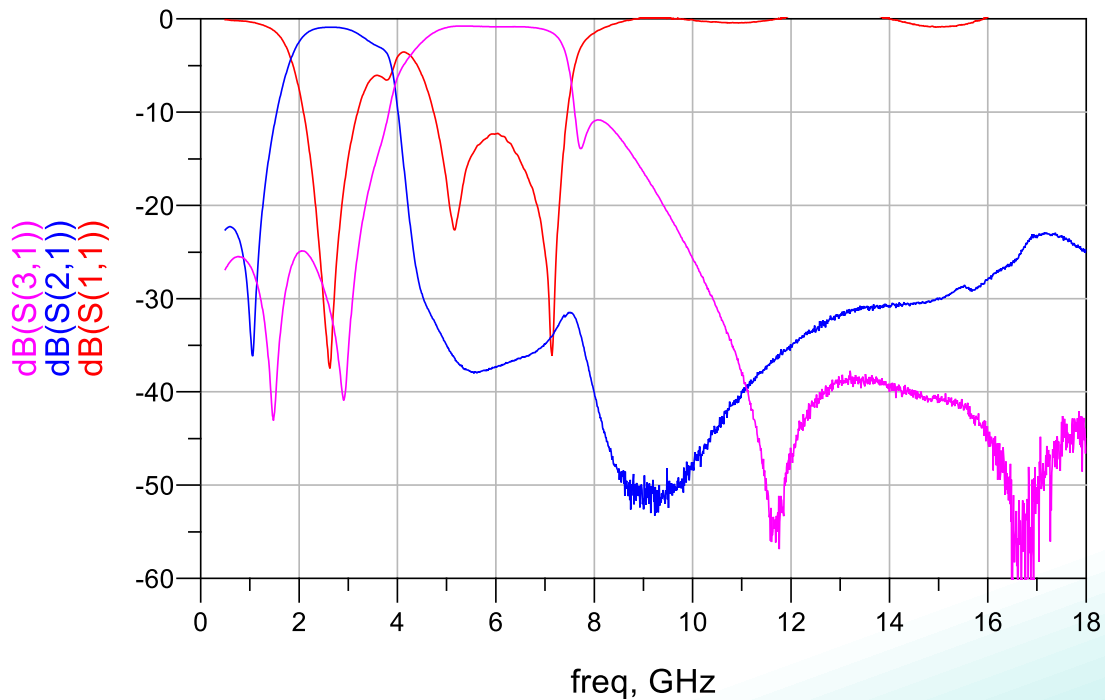
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MEASURING DIAGRAM



Test Instrument :  
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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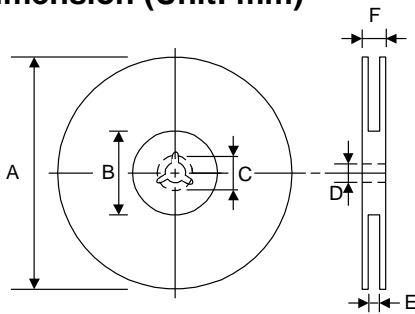
PACKING SPECIFICATION

Peel-off force



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

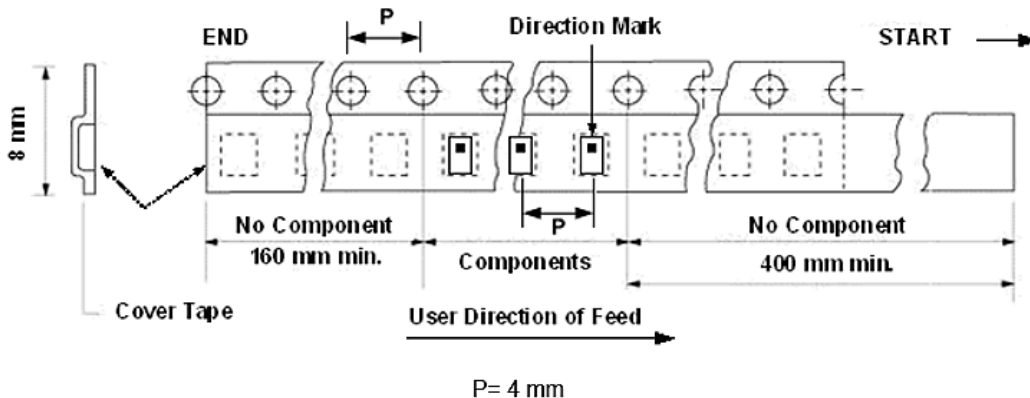
Dimension (Unit: mm)



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: DPX1608LKG8R2460A****REVISION HISTORY**

<u>Revision</u>	<u>Date</u>	<u>Description</u>
Version 1	Aug. 12, 2022	- New issue