

Description: 1608 Diplexer

PART NUMBER: DPX1608LKM2R2460A

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- WLAN

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	2400~2500	-	0.93	1.05
Return loss (dB)	2400~2500	11	13.88	-
Attenuation (dB)	30~1200	5	6.16	-
	4800~5000	35	44.86	-
	5150~7125	32	34.67	-
	7200~7500	32	34.94	-

High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	5150~5875	-	0.79	1.15
	5875~7125	-	0.87	1.15
Return loss (dB)	5150~7125	10	13.25	-
Attenuation (dB)	2400~2500	30	34.23	-
	2483	32	34.40	-
	10300~14250	27	30.50	-
	15450~21375	25	29.72	-

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 34th 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,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



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ELECTRICAL SPECIFICATIONS

Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return loss (dB)	2400~2500	11	15.15	-
	5150~7125	10	13.79	-

Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Isolation (dB)	2400~2500	32	37.42	-
	5150~7125	30	35.62	-

Operating Temperature Range : -40~85°C

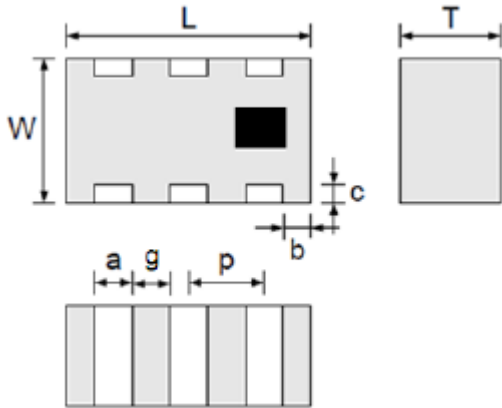
Power Capacity : 3W max.

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MECHANICAL DIMENSION

Outline



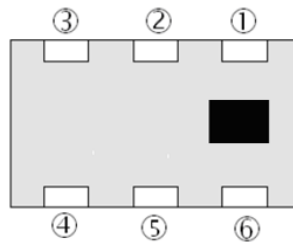
Dimension

L	W	T	a
1.60±0.10	0.80±0.10	0.70 max.	0.20±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

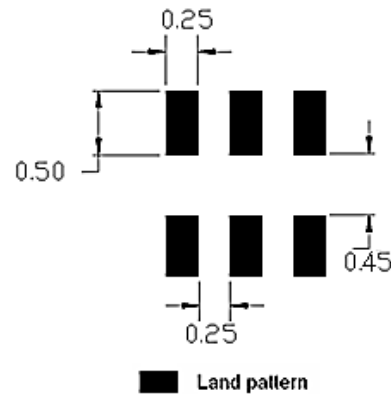
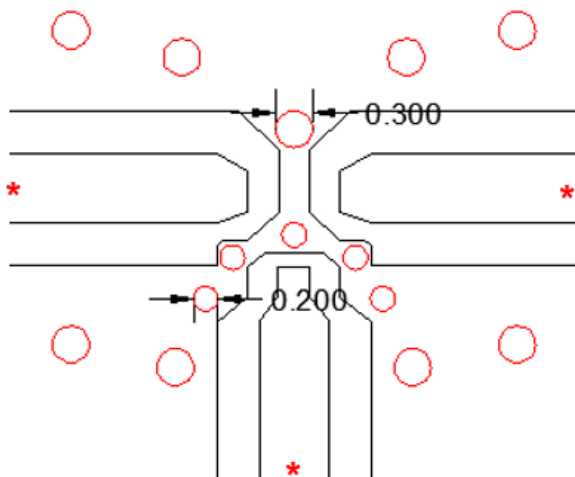


Terminal name

Function

1	High band
2	GND
3	Low band
4	GND
5	Common
6	GND

Reference design of EVB



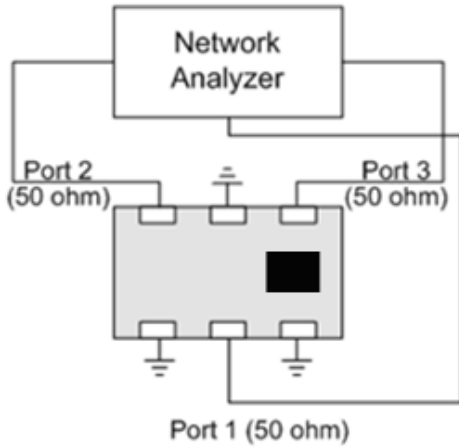
Unit : mm

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

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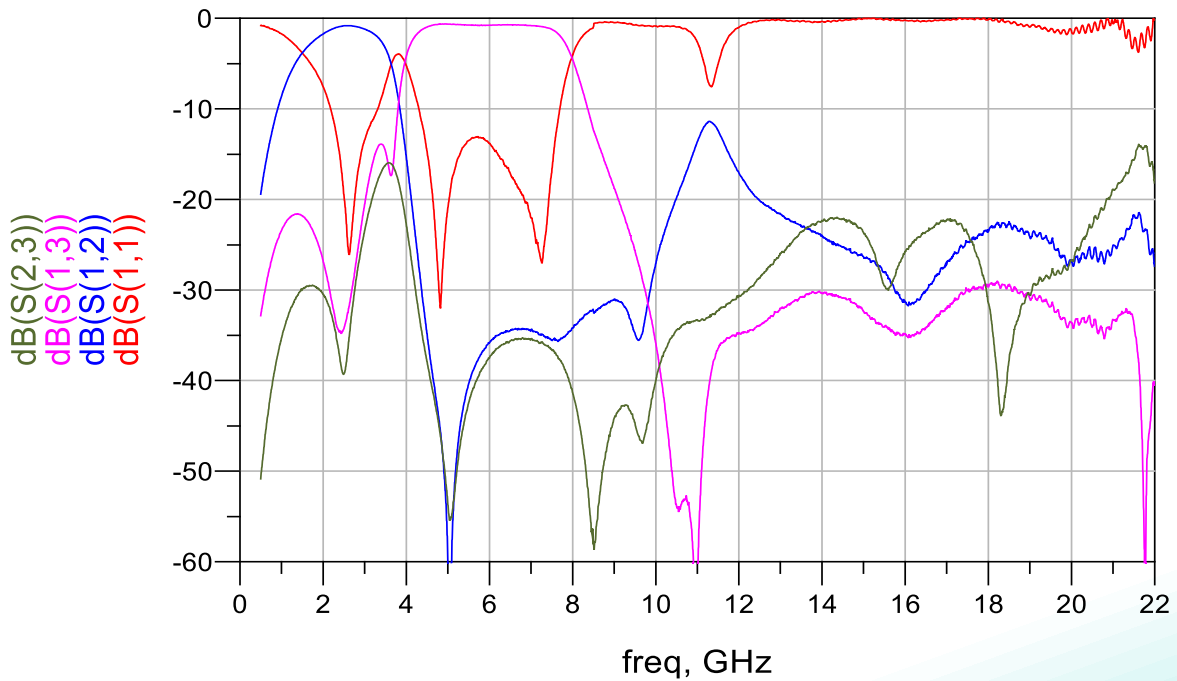
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MEASURING DIAGRAM



Test Instrument :
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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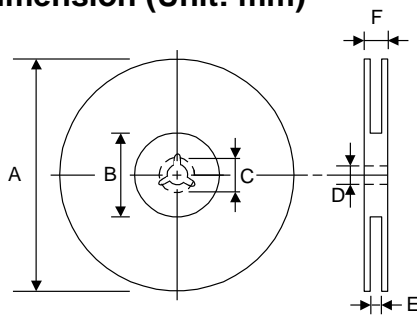
PACKING SPECIFICATION

Peel-off force



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

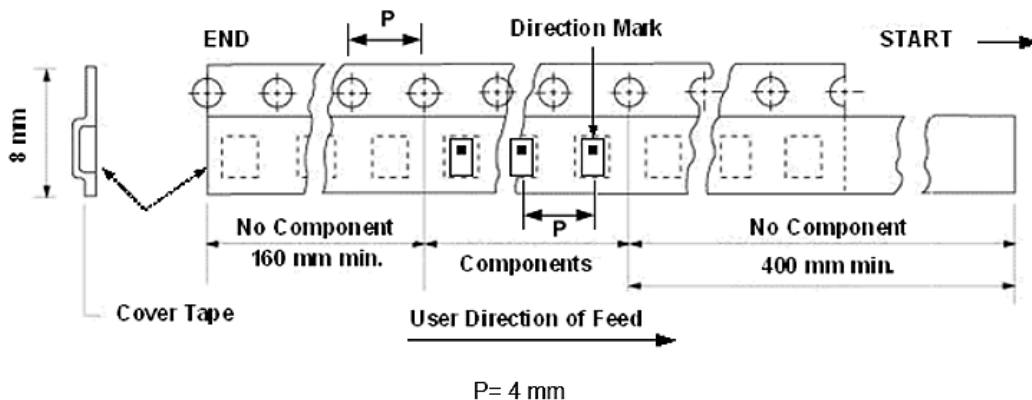
Dimension (Unit: mm)



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: DPX1608LKM2R2460A****REVISION HISTORY**

Revision	Date	Description
Version 1	Apr. 13, 2022	- New issue