

Description: 1608 Diplexer
PART NUMBER: DPX1608LKFBR2460A
(Preliminary)
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	-	0.62	0.8
Return loss (dB)	2400~2500	10	19.7	-
Attenuation (dB)	30~1000	8	13.1	-
	4800~7125	33	38.5	-
	7200~7500	33	39.3	-
	7700~7950	33	47.2	-
	7500~12000	15	24.8	-

High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	5150~7125	-	0.92	1.2
Return loss (dB)	5150~7125	10	-	-
Attenuation (dB)	100~1000	35	60.6	-
	1000~2300	35	47.3	-
	2400~2500	35	47.6	-
	2700~3500	20	26.6	-
	10300~14250	20	28.3	-
	14700~20000	10	16.1	-

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	10	21.6	-
	5150~7125	10	-	-

Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
HB to LB (dB)	2400~2500	35	46.6	-
	4800~7125	33	40.0	-
	10300~14250	-	28.5	-
	15450~20000	-	19.7	-

*Impedance for high-band = Match to client's chipset

Operating Temperature Range : -40~85°C

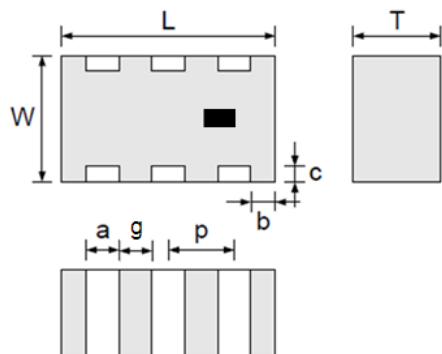
Power Capacity : 3W max.

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MECHANICAL DIMENSION

Outline



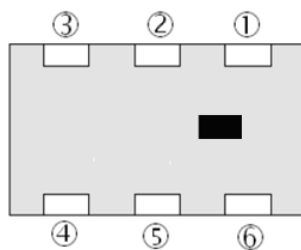
Dimension

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

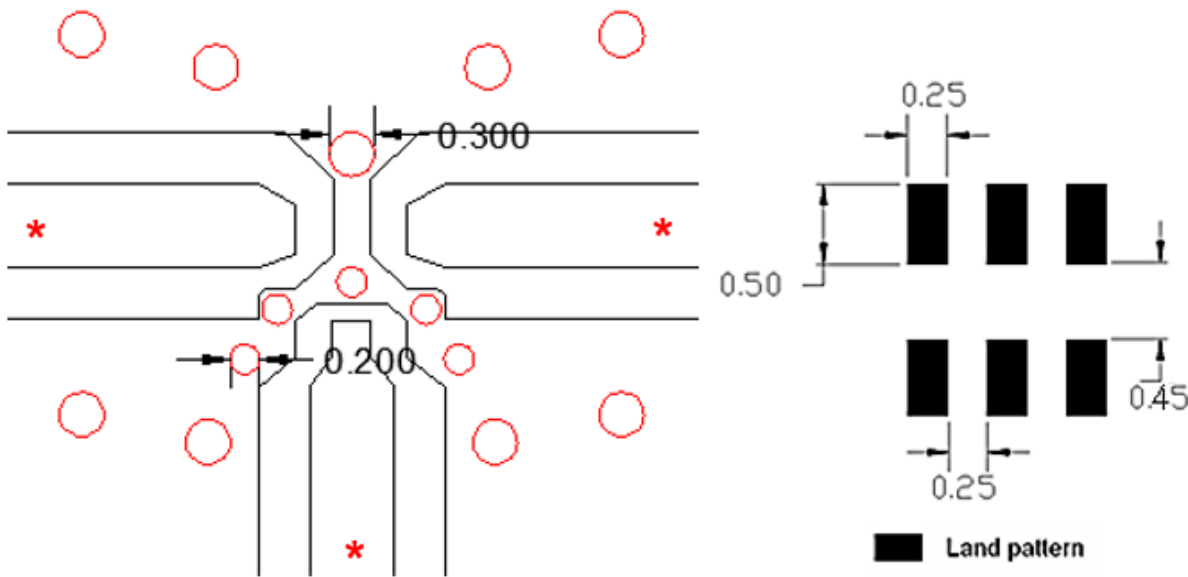


Terminal name

Function

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

Reference design of EVB



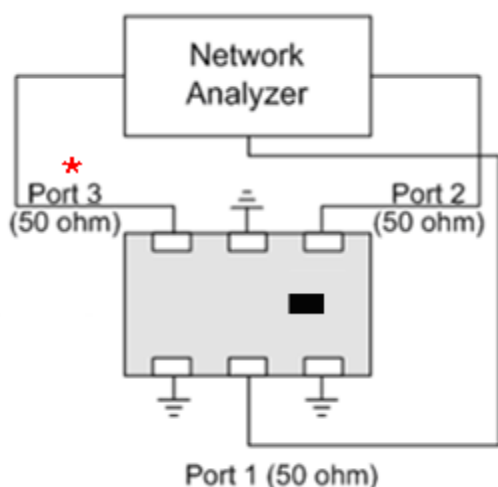
Unit : mm

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

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Description: 1608 Diplexer
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MEASURING DIAGRAM


Test Instrument :

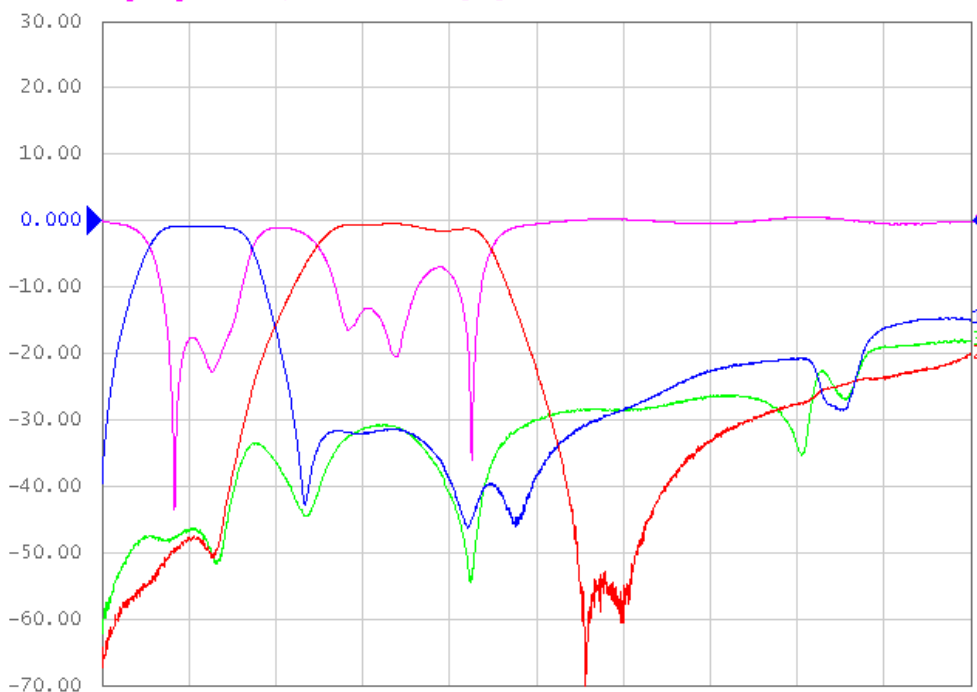
Agilent E5071C Network Analyzer or equivalent.

*Impedance for high-band = Match to client's chipset

ELECTRICAL PERFORMANCES

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Tr1 S21 Log Mag 10.00dB/ Ref 0.000dB [F3]
Tr2 S31 Log Mag 10.00dB/ Ref 0.000dB [F3]
Tr3 S23 Log Mag 10.00dB/ Ref 0.000dB [F3]
Tr4 S11 Log Mag 10.00dB/ Ref 0.000dB [F3]
  
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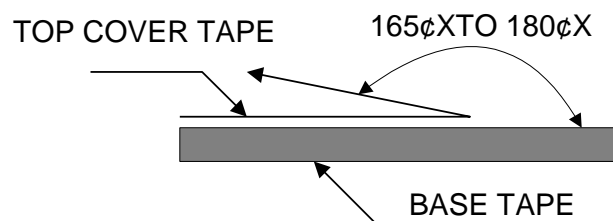
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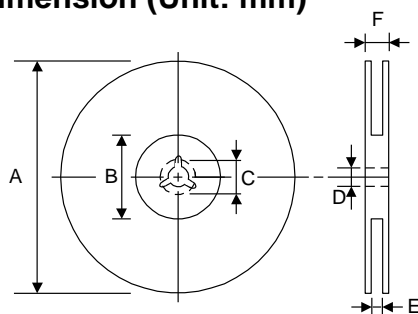
PACKING SPECIFICATION

Peel-off force



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

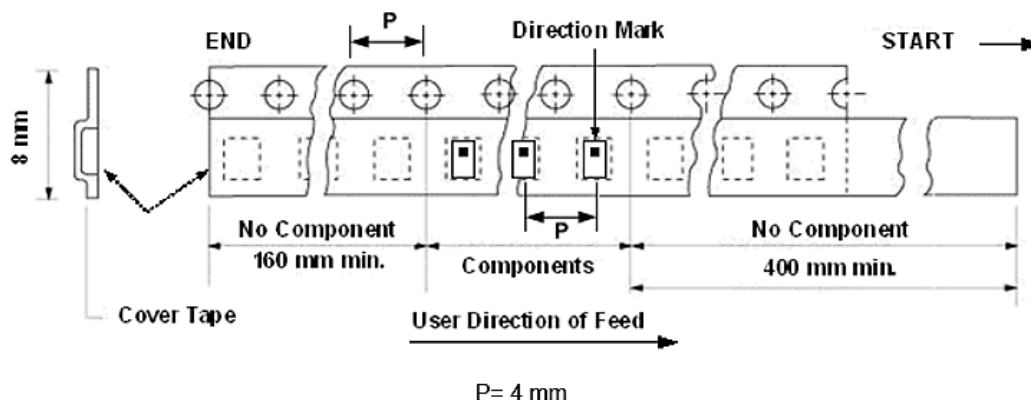
Dimension (Unit: mm)



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:** DPX1608LKFBR2460A
(Preliminary)**REVISION HISTORY**

Revision	Date	Description
Preliminary	Feb. 16, 2023	- New issue

Mouser Electronics

Authorized Distributor

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