

Description: 1608 Diplexer

PART NUMBER: DPX1608LKEYR2460A
(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	-	0.65	0.8
Return loss (dB)	2400~2500	10	18.8	-
Attenuation (dB)	30~1000	8	13.1	-
	4800~7125	33	37.5	-
	7200~7500	33	38.5	-
	7700~7950	35	45.4	-
	7500~12000	15	21.6	-

High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	5150~7125	-	0.94	1.2
Return loss (dB)	5150~7125	10	-	-
Attenuation (dB)	100~1000	38	58.6	-
	1000~2300	35	46.5	-
	2400~2500	35	46.3	-
	2700~3500	20	25.8	-
	10300~14250	20	27.3	-
	14700~20000	10	15.8	-

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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

Description: 1608 Diplexer

PART NUMBER: DPX1608LKEYR2460A
(Preliminary)

ELECTRICAL SPECIFICATIONS

Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return loss (dB)	2400~2500	10	20.3	-
	5150~7125	10	-	-

Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
HB to LB (dB)	2400~2500	35	45.6	-
	4800~7125	33	39.0	-
	10300~14250	-	27.4	-
	15450~20000	-	19.1	-

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

Operating Temperature Range : -40~85°C

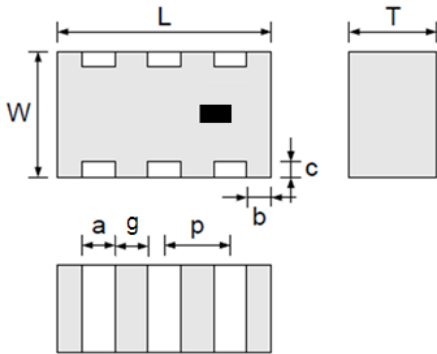
Power Capacity : 3W max.

Description: 1608 Diplexer

PART NUMBER: DPX1608LKEYR2460A
(Preliminary)

MECHANICAL DIMENSION

Outline

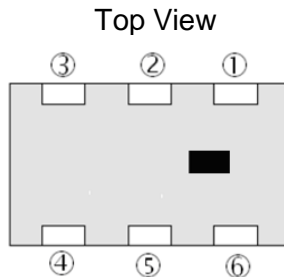


Dimension

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

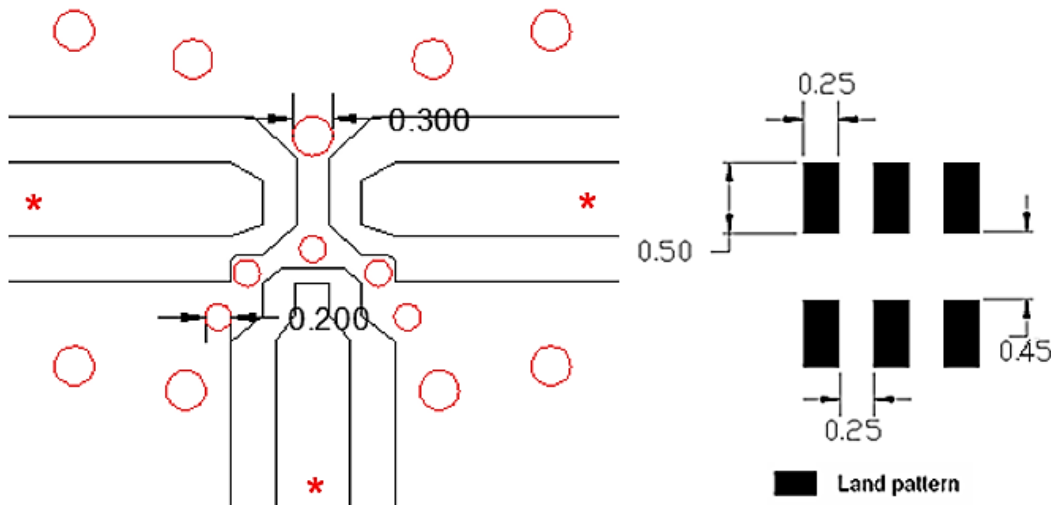


Terminal name

Function

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.

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

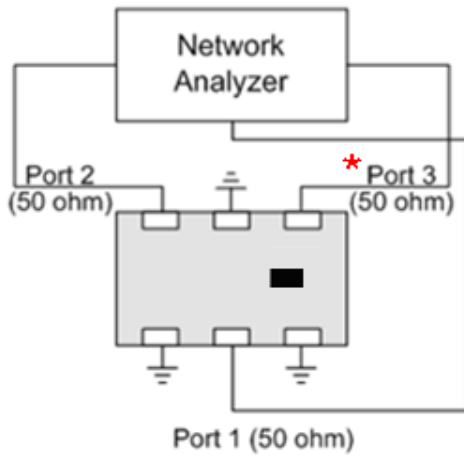
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: 1608 Diplexer

PART NUMBER: DPX1608LKEYR2460A
(Preliminary)

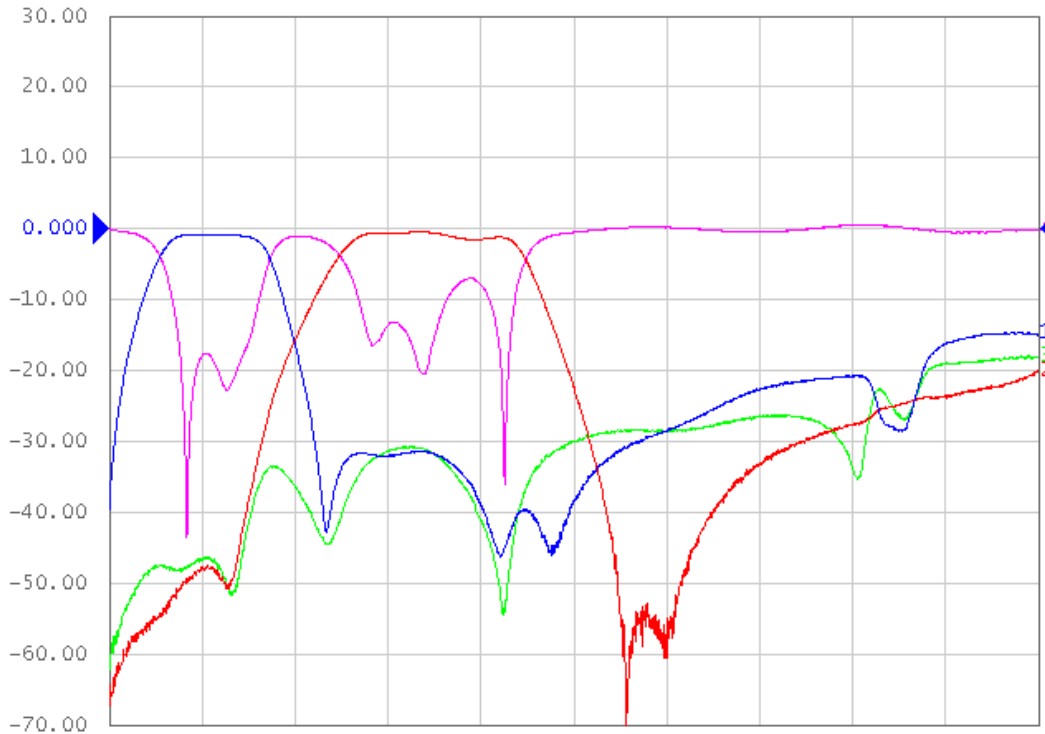
MEASURING DIAGRAM



Test Instrument :
Agilent E5071C Network Analyzer or equivalent.
*Impedance for high-band = Match to client's chipset

ELECTRICAL PERFORMANCES

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]



In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: 1608 Diplexer

PART NUMBER: DPX1608LKEYR2460A
(Preliminary)

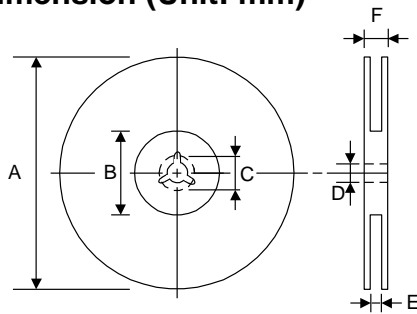
PACKING SPECIFICATION

Peel-off force



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

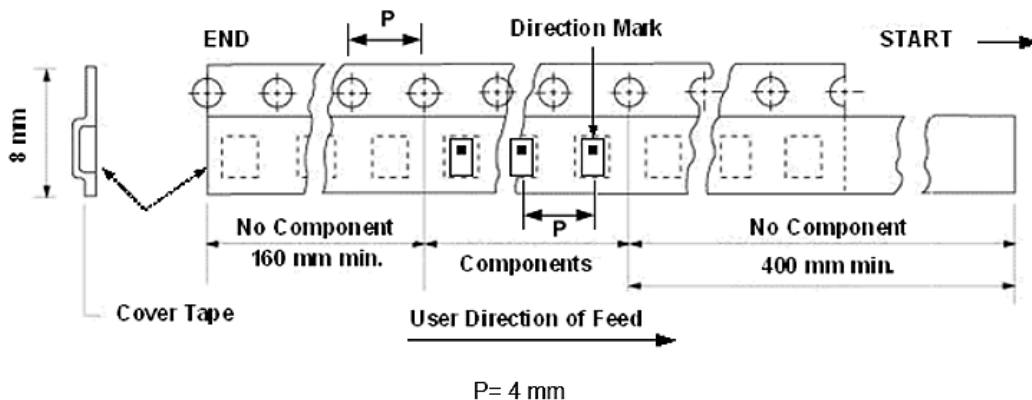
Dimension (Unit: mm)



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
PCS/Reel	5000	3000	1000	2000	2500	3000	4000	10000



In the effort to improve our products, we reserve the right to make changes judged to be necessary.
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: 1608 Diplexer**PART NUMBER: DPX1608LKEYR2460A
(Preliminary)****REVISION HISTORY**

Revision	Date	Description
Preliminary	Nov. 15, 2022	- New issue