

Description: 1608 Diplexer

PART NUMBER: DPX1608LKEUR2455L

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- WiFi

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400~2500	-	0.42	0.65
Return Loss (dB)	2400~2500	15	27.7	-
Attenuation (dB)	4800~6000	32	39.7	-
	7200~7500	25	29.1	-

High-Band

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	4900~5950	-	0.63	0.85
Return Loss (dB)	4900~5950	12	18.8	-
Attenuation (dB)	30~2100	25	29.2	-
	2400~2500	32	35.8	-
	2500~2700	27	39.3	-
	9800~11900	22	33.9	-
	14700~17850	15	25.9	-

Common

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Return Loss (dB)	2400~2500	15	27.3	-
	4900~5950	12	19.1	-

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.

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 & Co, 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

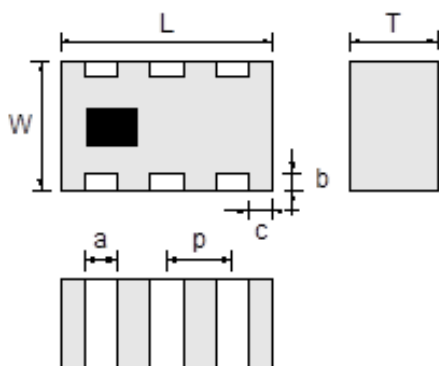


Description: 1608 Diplexer

PART NUMBER: DPX1608LKEUR2455L

MECHANICAL DIMENSION

Outline

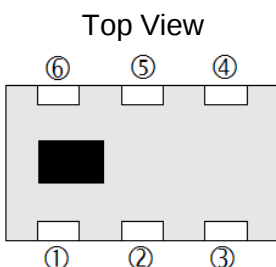


Dimension

L	W	T	a
1.60±0.15	0.80±0.10	0.45 max.	0.20±0.10
b	c	p	
0.15±0.10	0.20±0.10	0.50±0.05	

NOTE : Dimensions in mm.

Termination

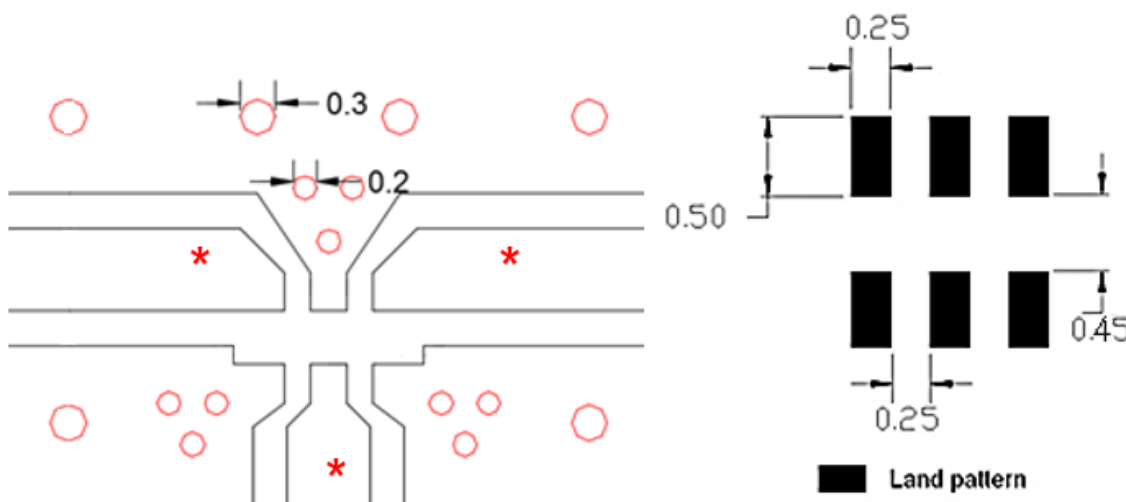


Terminal name

Function

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

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.

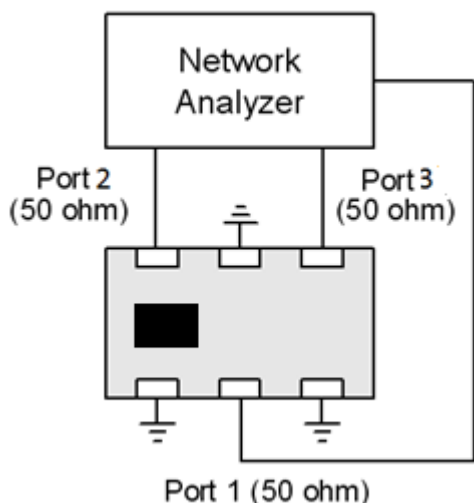
CONFIDENTIAL AND PROPRIETARY INFORMATION

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

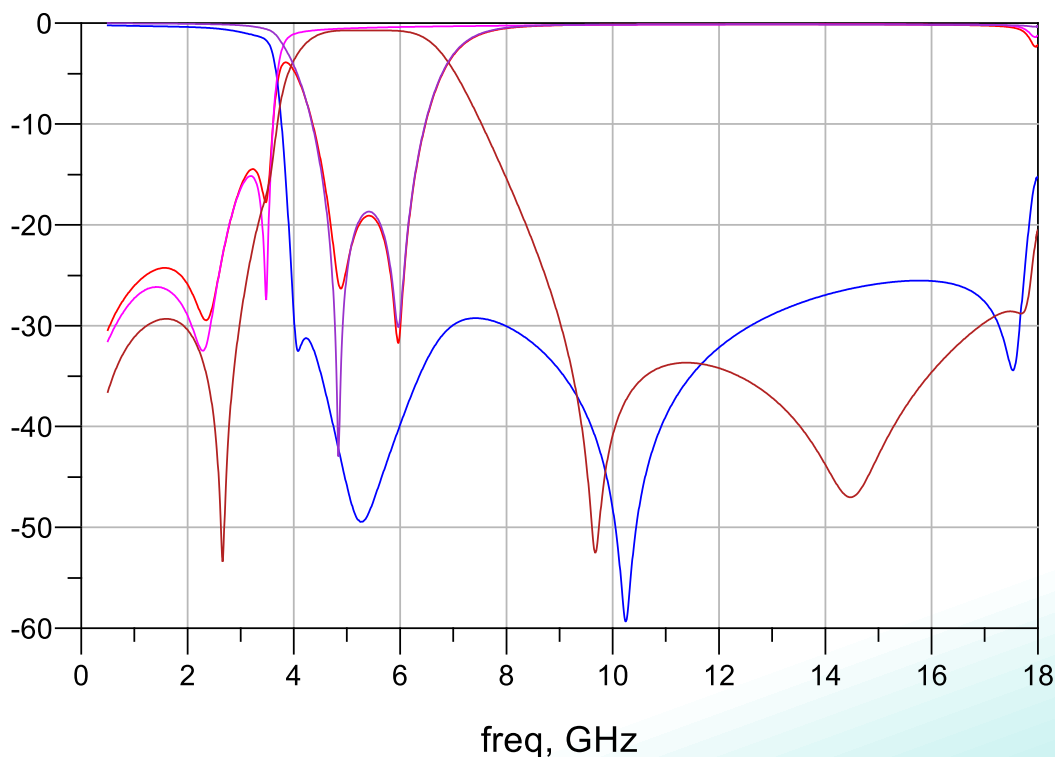
PART NUMBER: DPX1608LKEUR2455L

MEASURING DIAGRAM



Test Instrument :
Agilent E5071C Network Analyzer or equivalent.

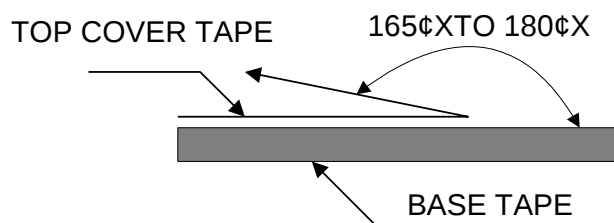
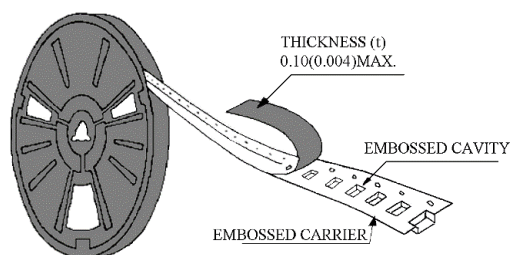
ELECTRICAL PERFORMANCES



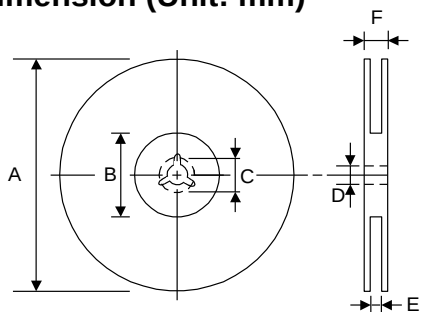
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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: DPX1608LKEUR2455L
PACKING SPECIFICATION
Peel-off force


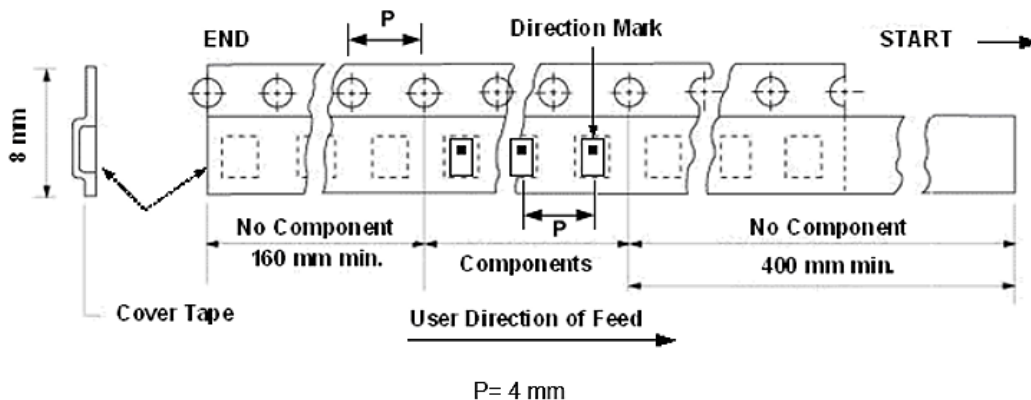
The force for peeling of cover tape is 10 grams in the arrow direction.

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



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:** DPX1608LKEUR2455L**REVISION HISTORY**

Revision	Date	Description
Version 1	May. 12, 2023	- New issue

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.

