chanhvinh.com

Pulse
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 Diplexer

PART NUMBER: DPX1608LKV7R2460A

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- wireless

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400~2500	-	0.65	1
Return Loss (dB)	2400~2500	10	14.9	-
Attenuation (dB)	1164~1300	15	21.8	-
	1559~1601	13	17.2	-
	4800~7100	20	23.9	-
	7200~7500	20	27.6	-
	9600~10000	20	25.6	-

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:

RoHS COMPLIANT

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

chanhvinh.com

Pulse A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 Diplexer

PART NUMBER: DPX1608LKV7R2460A

ELECTRICAL SPECIFICATIONS

High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	5150~5300	-	1.29	1.5
	5925~6425	-	1.03	1.2
	6525~6875	-	0.77	1.2
	6875~7125	-	0.97	1.2
Return Loss (dB)	5150~7125	10	14.2	-
Attenuation (dB)	824~849	35	55.5	-
	1164~1600	30	40.1	-
	1601~2400	30	40.1	-
	2400~2500	35	45.4	-
	2501~3299	26	32.6	-
	3300~4200	28	34.7	-
	9800~14250	20	30.9	-
	14700~21375	10	18.4	-

Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return Loss (dB)	2400~2500	10	17	-
	5150~7125	10	15.2	-

Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Low to High (dB)	2400~2500	40	44.8	-
	4800~7100	20	26.4	-

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.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company

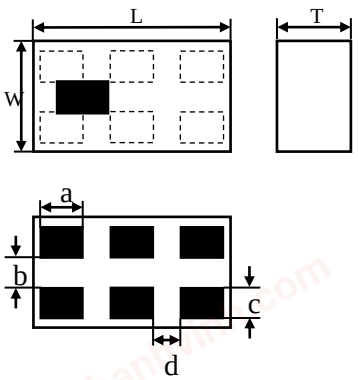
TECHNICAL DATA SHEET

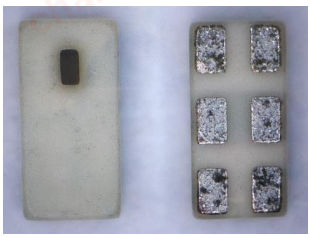
Description: 1608 Diplexer

PART NUMBER: DPX1608LKV7R2460A

MECHANICAL DIMENSION

Outline





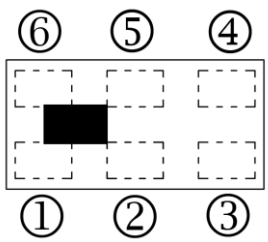
Dimension

L	W	T	a
1.60±0.10	0.80±0.10	0.70 max.	0.35±0.05
b	c	d	
0.22±0.05	0.225±0.05	0.22±0.05	

NOTE：Dimensions in mm.

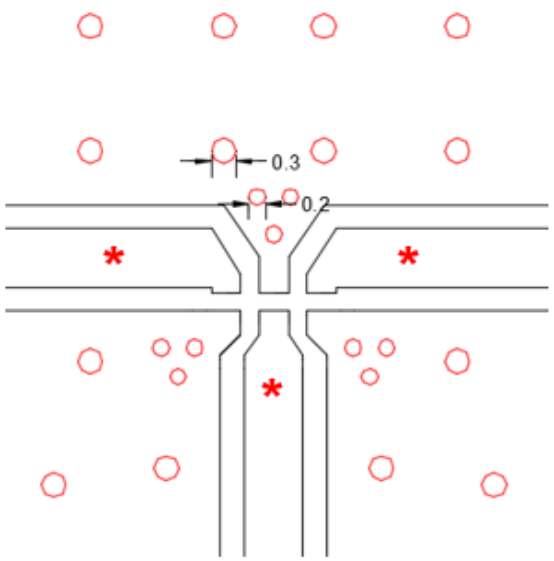
Termination

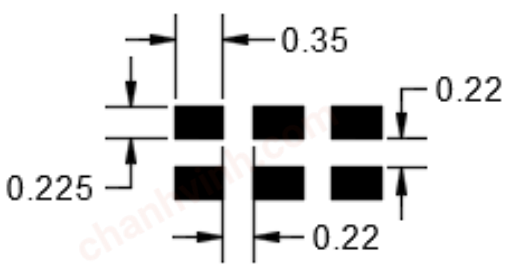
Top View



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.

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.

RoHS COMPLIANT

chanhvinh.com

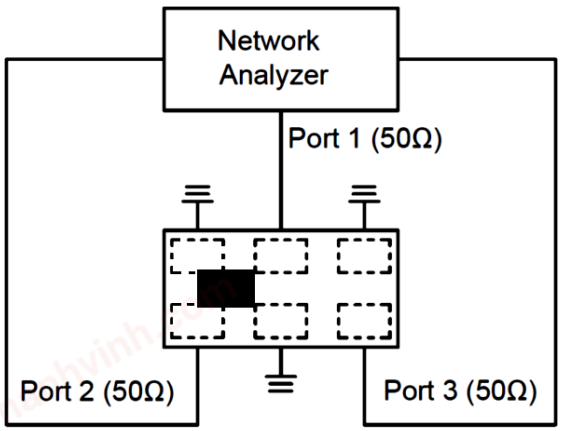
Pulse A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 Diplexer

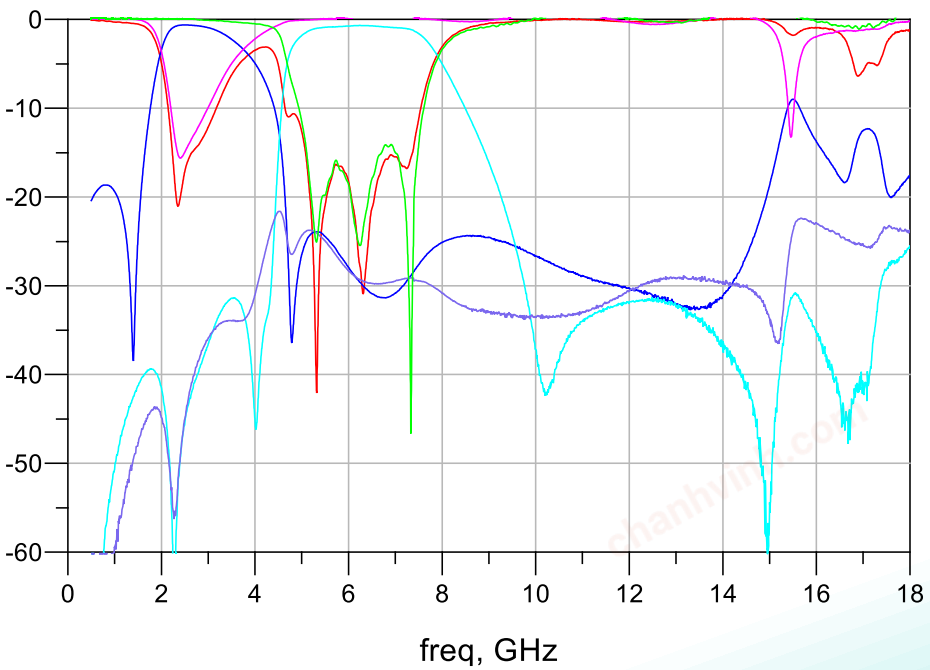
PART NUMBER: DPX1608LKV7R2460A

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.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company

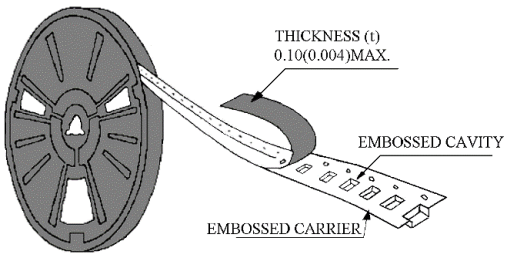
TECHNICAL DATA SHEET

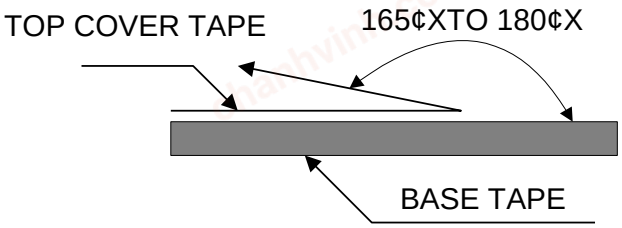
Description: 1608 Diplexer

PART NUMBER: DPX1608LKV7R2460A

PACKING SPECIFICATION

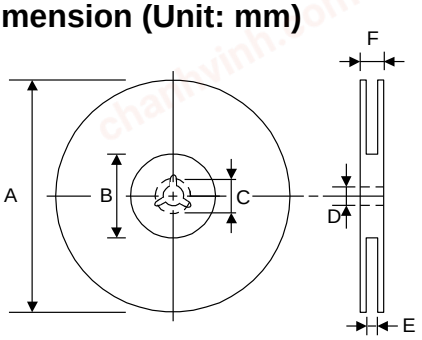
Peel-off force





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

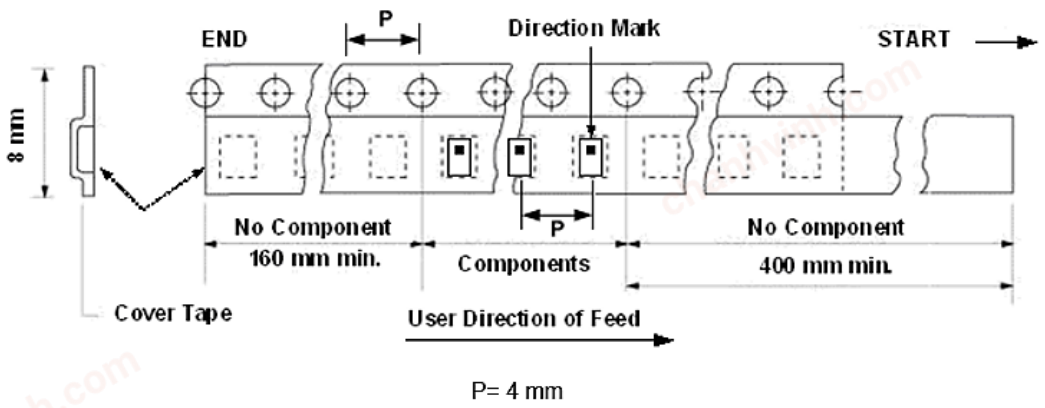
Dimension (Unit: mm)



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.

RoHS COMPLIANT

chanhvinh.com

Pulse A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 Diplexer

PART NUMBER: DPX1608LKV7R2460A

REVISION HISTORY

Revision	Date	Description
Version 1	Mar. 02, 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.

RoHS COMPLIANT