

**Description: 1608 2.4G&5GHz Diplexer**

**PART NUMBER: DPX1608LL66R2455A**

**Features:**

- Compact size : 1.6x0.8x0.6mm
- RoHS compliant

**Applications:**

- WLAN, 802.11a/b/g/n
- ISM Band

**ELECTRICAL SPECIFICATIONS**

DESCRIPTION	VALUE	
	Low Band	High Band
<b>Pass Band</b>	2400~2500MHz	4900~6000MHz
<b>Insertion Loss</b>	0.95dB (Max) at 25°C	0.90dB (Max) at 25°C
<b>Return Loss</b>	10.0 dB (Min)	10.0 dB (Min)
<b>Attenuation</b>	25dB(Min).@700~960MHz 10dB(Min).@960~1300MHz 28dB(Min).@4800~5000MHz 25dB(Min).@7200~7500MHz	30dB(Min).@1200~1500MHz 25dB(Min).@1600~2000MHz 25dB(Min).@2300~2700MHz 15dB(Min).@2700~3000MHz 25dB(Min).@10000~11800MHz 15dB(Min).@15000~17700MHz
<b>Isolation</b>	28dB(Min).@2400~2500MHz 28dB(Min).@4800~5000MHz	
<b>Operating Temperature</b>	-40 ~ 85°C	

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 34<sup>th</sup> 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

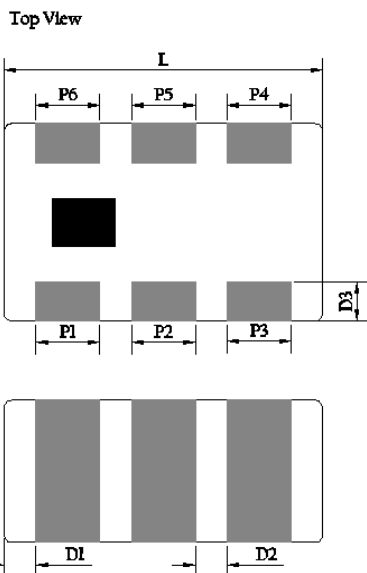
Pulse (Suzhou) Wireless Products Co, Inc.  
 99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
 Suzhou New District  
 Jiangsu Province, Suzhou 215009 PR China  
 Tel: 86 512 6807 9998

Description: 1608 2.4G&5GHz Diplexer

PART NUMBER: DPX1608LL66R2455A

MECHANICAL DIMENSION

Outline



Termination

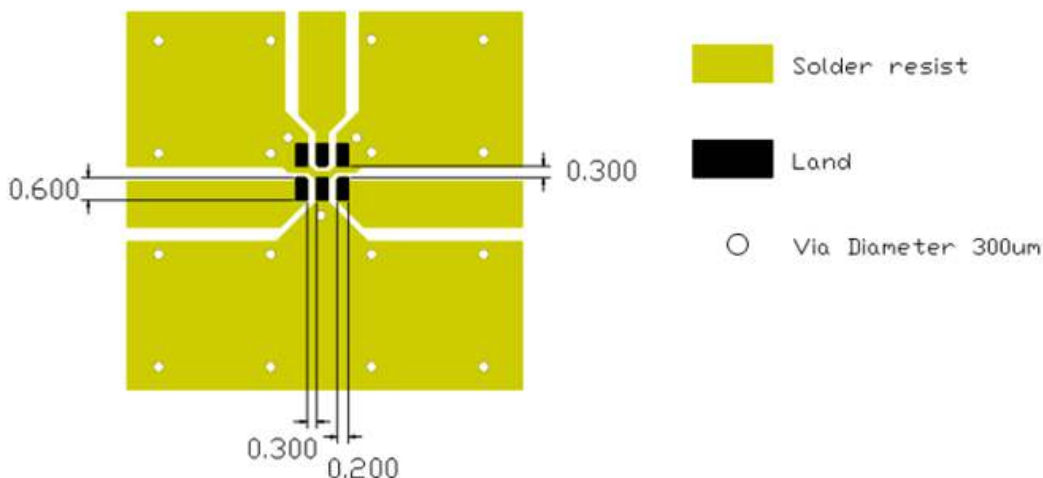
Terminal name	Function
P1	High band
P2	GND
P3	Low band
P4	GND
P5	Common
P6	GND

Mechanical

	Dimension
L (mm)	1.60±0.15
W (mm)	0.80±0.15
T (mm)	0.60±0.15
P1 (mm)	0.20±0.15
P2 (mm)	0.20±0.15
P3 (mm)	0.20±0.15
P4 (mm)	0.20±0.15
P5 (mm)	0.20±0.15
P6 (mm)	0.20±0.15
D1 (mm)	0.20±0.15
D2 (mm)	0.30±0.10
D3 (mm)	0.15±0.10

Reference design of EVB

Recommended PCB Pattern



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.

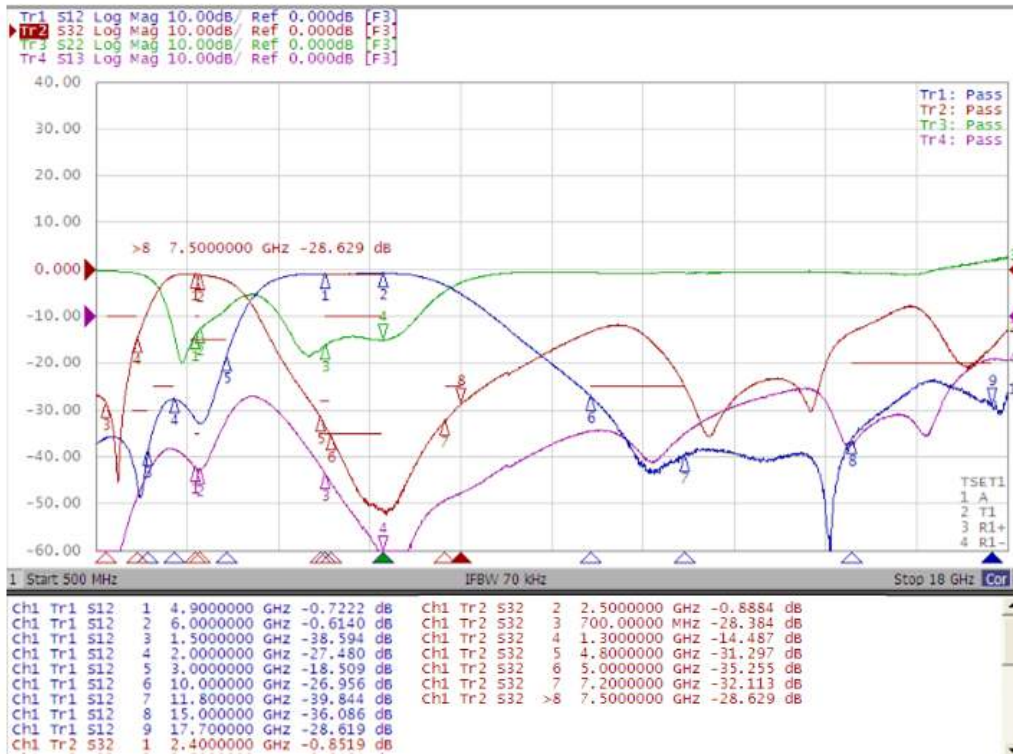
CONFIDENTIAL AND PROPRIETARY INFORMATION

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 2.4G&5GHz Diplexer**

**PART NUMBER: DPX1608LL66R2455A**

**ELECTRICAL PERFORMANCES**



- Measured on Agilent E5071C Network Analyzer
- Common port : Port 2 (Return loss : S22)
- High band port : Port 1 (High band Insertion loss S12, and attenuation at high band)
- Low band port : Port 3 (Low band Insertion loss S32, and attenuation at low band)

Frequency Characteristics

**Description:** 1608 2.4G&5GHz Diplexer

**PART NUMBER:** DPX1608LL66R2455A

### REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 06, 2020	- New issue