

Description: 1608 Diplexer

PART NUMBER: DPX1608LKUAR2460L (Preliminary)

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- Dual-band WLAN
- WiFi6E
- WiFi7

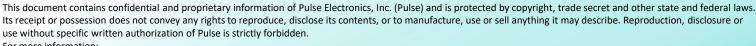
ELECTRICAL SPECIFICATIONS

Low-Band		(Simulation)		
Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400~2500	-	0.56	0.8
Return Loss (dB)	2400~2500	10	21.2	-
Attenuation (dD)	4800~5000	45	58.6	-
Attenuation (dB)	7200~7500	15	37.8	-

High-Band

Item	Frequency Range (MHz)	Min.	Тур.	Max.
	4900~5100	-	0.84	1.3
Insertion Loss (dB)	5150~5950	-	0.71	1.0
	5950~7150	-	0.73	1.0
Return Loss (dB)	4900~7150	10	15.3	-
	2400~2500	40	53.3	-
Attenuation (dB)	10300~14300	22	24.9	-
	15300~21450	15	21.0	-

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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 (Simulation)							
Item	Frequency Range (MHz)	Min.	Тур.	Max.			
Deturn Loop (dD)	2400~2500	10	19	-			
Return Loss (dB)	4900~7150	10	15	-			
Isolation	Isolation						
Item	Frequency Range (MHz)	Min.	Тур.	Max.			
	2400~2500	40	50.6	-			
Low to Llich (dD)	4800~5000	40	60.5	-			
Low to High (dB)	5000~6000	40	46.7	-			
	6000~7150	30	41.0	-			

Operating Temperature Range : -40~85°C Power Capacity : 3W max.

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MECHANICAL DIMENSION

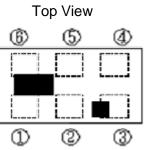
<u>Ou</u>	<u>tline</u>	
w		
b	a V M M M M M M b1	b2 c

Dimension

L	W	Т	а
1.60±0.10	0.80±0.10	0.70 max.	0.30±0.10
b	С	d	b1
0.20±0.10	0.25±0.10	0.20±0.10	0.15±0.05
b2			
0.05±0.05			

NOTE : Dimensions in mm.

Termination

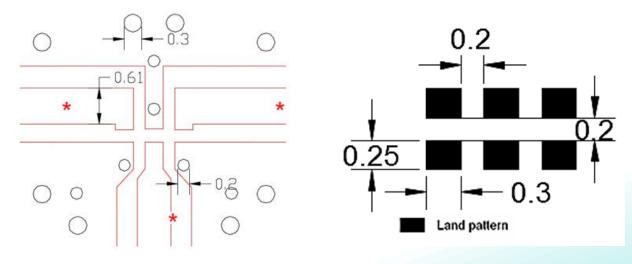


	Terminal name	Function
	1	GND
	2	Common
]	3	GND
	4	High band
11	5	GND

h band GND Low band

Reference design of EVB

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Unit : mm

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

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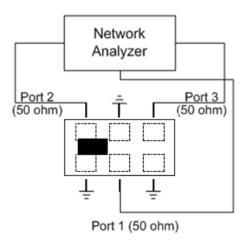
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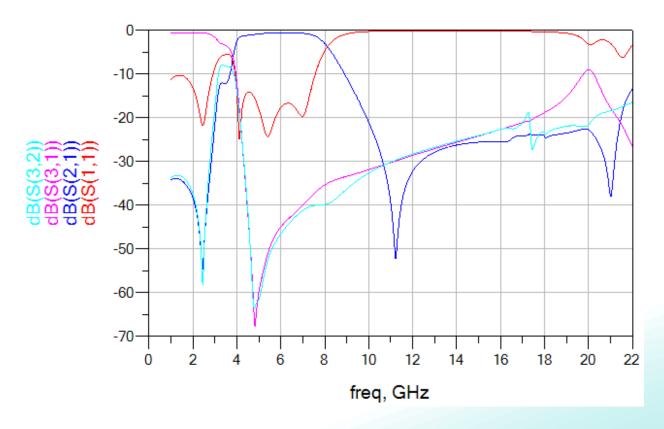
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MEASURING DIAGRAM



Test Instrument : Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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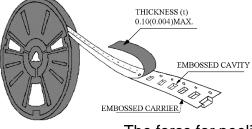


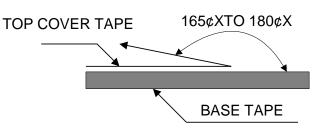
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PACKING SPECIFICATION

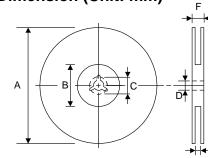
Peel-off force





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

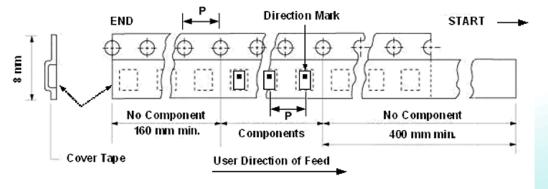
Dimension (Unit: mm)



ТҮРЕ	A	В	С	D	Е	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



P= 4 mm

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REVISION HISTORY

Revision	Date	Description
Preliminary	Sep. 1, 2022	- New issue

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