

Description: 1608 Diplexer

PART NUMBER: DPX1608LKF4R2460A

(Preliminary)

Features:

- Compact Size
- · Low loss
- · High Soldering Heat Resistance

Applications:

· WiFi 6E.

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400~2483	-	1.35	TBD
Return Loss (dB)	2400~2483	TBD	12.2	-
	400~960	TBD	23.1	-
	1425~1557	TBD	17.1	-
	1557~1607	TBD	14.9	-
	1626~1661	TBD	12.4	-
	1710~2025	TBD	5.2	-
Attenuation (dB)	3300~4200	TBD	1.5	-
	4400~4800	TBD	37.2	-
	4800~5000	TBD	39.6	-
	5150~5925	TBD	39.5	-
	5925~7125	TBD	43.6	-
	7200~7500	TBD	41.9	-
	9600~10000	TBD	36.7	-
	12000~12410	TBD	29.4	-
	14412~14892	TBD	22.3	-
	16814~17374	TBD	23.8	-

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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

High-Band

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	5170~7125	-	0.97	TBD
Return Loss (dB)	5170~7125	TBD	10.4	-
	400~915	TBD	28.2	-
	915~960	TBD	28.4	-
	1425~1470	TBD	35.2	-
	1470~1557	TBD	36.8	-
	1557~1607	TBD	44.4	-
	1625~1661	TBD	45.8	-
	1710~2025	TBD	33.5	-
	2300~2400	TBD	36.4	-
	2400~2482	TBD	42.4	-
	2496~2690	TBD	32.3	-
Attenuation (dB)	2690~3560	TBD	13.0	-
	8025~8647	TBD	1.34	-
	8647~10340	TBD	2.6	-
	10340~10600	TBD	20.7	-
	10600~12700	TBD	30.4	-
	12700~13250	TBD	39.3	-
	13250~13400	TBD	42.3	-
	13400~14250	TBD	43.8	-
	14412~14892	TBD	41.5	-
	15510~16200	TBD	41.7	-
	16200~17700	TBD	37.6	-



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ELECTRICAL SPECIFICATIONS

Common

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Poturo Logo (dP)	2400~2483	10	17.0	-
Return Loss (dB)	5170~7125	10	11.6	-

Isolation

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Isolation (dB)	2400~2482	TBD	43.7	ı
	5150~7125	TBD	40.6	ı
	12000~12410	TBD	30.8	-
	16800~17373	TBD	23.1	-

Operating Temperature Range: -40~85°C

Power Capacity: 3W max.



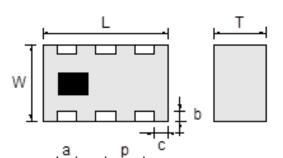
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MECHANICAL DIMENSION

Outline



Dimension

L	W T		а
1.60±0.15	0.80±0.10	0.70 max.	0.20±0.10
b	С	р	
0.15±0.10	0.20±0.10	0.50±0.05	

NOTE: Dimensions in mm.

<u>Termination</u>						
Top View						
6	(5)	4				

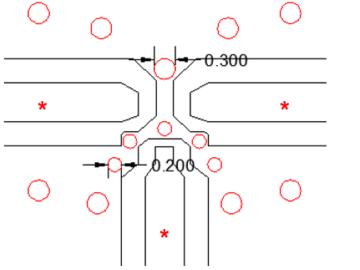
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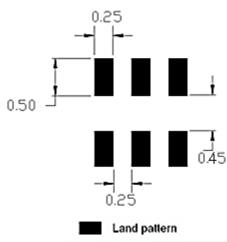
1

Terminal name	Function
1	GND
2	Common
3	GND
4	Low band
5	GND
6	High band

Reference design of EVB

3





Unit: mm

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

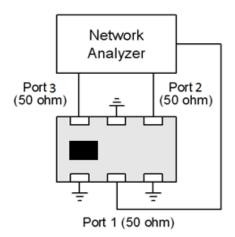


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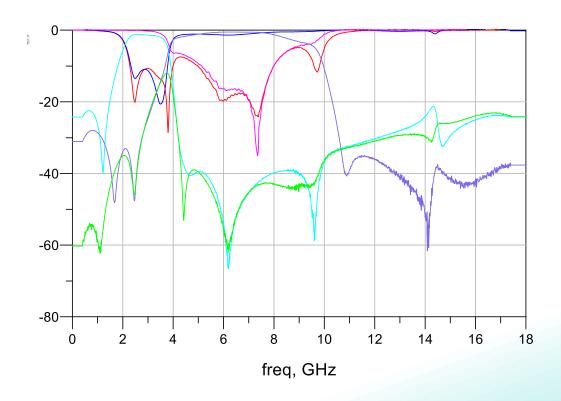
(Preliminary)

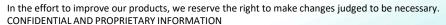
MEASURING DIAGRAM



Test Instrument: Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES









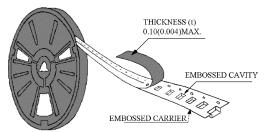
Description: 1608 Diplexer

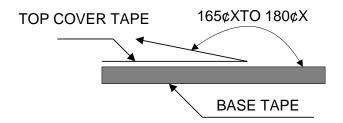
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PACKING SPECIFICATION

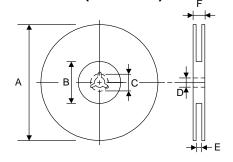
Peel-off force





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

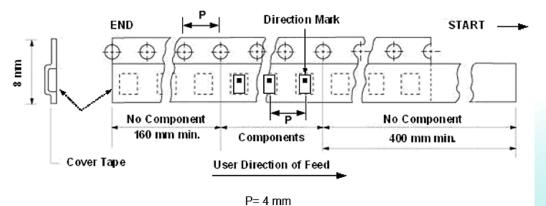
Dimension (Unit: mm)



TYPE	А	В	С	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



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Revision

Version 1

Version 2

Date

Mar. 29, 2022

Aug. 22, 2022

TECHNICAL DATA SHEET

Description: 1608 Diplexer

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REVISION HISTORY	
Description	
- New issue	_

- Update measure electrical.