

Description: 1608 Diplexer

PART NUMBER: DPX1608LKEFR2455L

Features:

Applications:

Compact Size

• WiFi

- Low loss
- High Soldering Heat Resistance

ELECTRICAL SPECIFICATIONS

Low-Band Item

Item	Frequency Range(MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400~2500	2400~2500 - 0.73		0.85
Insertion Loss(dB) at -40~85°C	2400~2500	2400~2500		0.95
Return Loss (dB)	2400~2500	13	18.4	-
	30~1000	15	22.7	-
Attenuation	4800~7125	30	32.5	-
(dB)	7200~7500	30	34.9	-
	7500~12000	20	28.8	-

High-Band

Item	Frequency Range(MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	5150~5875	-	0.84	1.20
Insertion Loss (dB) at -40~85°C	5150~5875		1.45	
Return Loss (dB)	5150~5875	13	21.5	-
	100~2300 30	33.2	-	
	2400~2500	40	44.1	-
Attenuation (dB)	2700~3500	15	23.7	-
(UB)	10300~11750	20	23.0	-
	15450~17625	20	25.0	-

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

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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								
Item	Frequency Range(MHz)	Min.	Тур.	Max.				
Deturn Loop (dD)	2400~2500	13	24.4	-				
Return Loss (dB)	5150~5875	13	21.2	-				

Isolation

Item	Frequency Range(MHz)	e(MHz) Min. Typ.		Max.
Lligh to Low (dD)	2400~2500	40	49.1	-
High to Low (dB)	4800~5000	25	34.4	-

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

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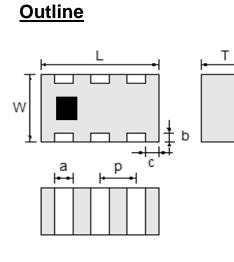
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MECHANICAL DIMENSION



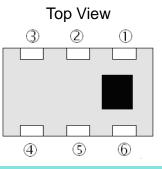
Dimension

L	W	Т	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±0.15	0.50±0.05	

NOTE : Dimensions in mm.

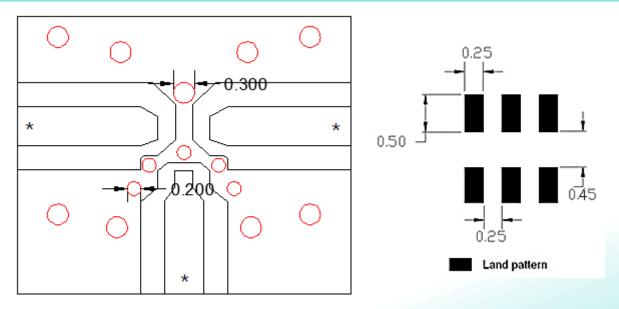
3

Termination



Terminal name	Function
1	High band
2	GND
3	Low 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

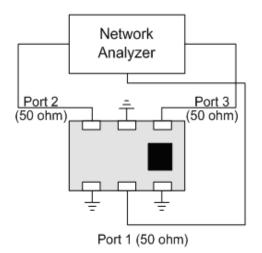
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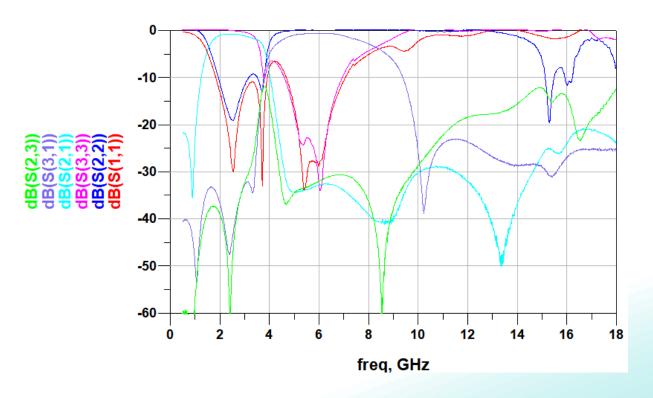
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MEASURING DIAGRAM



Test Instrument : Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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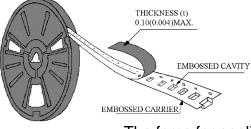


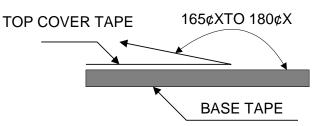
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PACKING SPECIFICATION

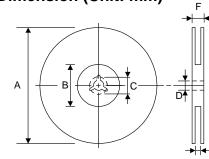
Peel-off force





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

Dimension (Unit: mm)



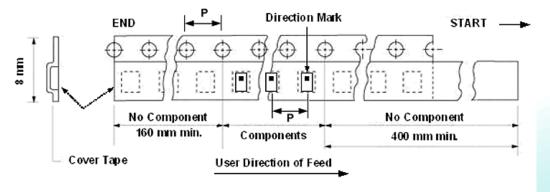
ТҮРЕ	A	В	С	D	Е	F
8 mm	178±1	60+0.5 -0	-	13±0.2	9±0.5	12±0.5
12 mm	178±0.3	60±0.2	19.3±0.1	13.5±0.1	13.6±0.1	-

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RóHS

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	
Version 1	Sep. 02, 2022	- New issue	

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