

**Description**: 1608 Diplexer

PART NUMBER: DPX1608LKE8R2455A

### **Features:**

# **Applications:**

Compact Size

WiFi

- Low loss
- · High Soldering Heat Resistance

### **ELECTRICAL SPECIFICATIONS**

#### Low-Band

Item	Frequency Range(MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400~2500	-	0.41	0.50
at 25°C				0.00
Insertion Loss (dB)	2400~2500	_	_	0.70
at -40~85°C	2100 2000			0.70
Return Loss (dB)	2400~2500	12	16.5	-
Attenuation (dB)	4800~5000	27	30.8	-
Attenuation (ub)	7200~7500	27	36.5	-

**High-Band** 

Item	Frequency Range(MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	5150~5850	-	0.55	0.70
at 25°C Insertion Loss (dB)	5150~5850	-	-	0.90
at -40~85°C  Return Loss (dB)	5150~5850	12	14.8	-
	2400~2500	27	31.0	-
Attenuation (dB)	10300~11700	27	33.5	<u>-</u>
	15450~16200	27	41.9	-

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### **ELECTRICAL SPECIFICATIONS**

#### Common

Item	Frequency Range(MHz)	Min.	Тур.	Max.
Deturn Loop (dD)	2400~2500	12	16.5	-
Return Loss (dB)	5150~5850	12	14.9	-

**Isolation** 

Item	Frequency Range(MHz)	Min.	Тур.	Max.
Low to High (dP)	2400~2500	27	31.9	-
Low to High (dB)	5150~5850	27	37.1	-

Operating Temperature Range: -40~85°C

Power Capacity: 3W max.

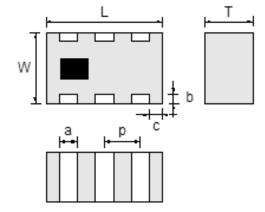


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### **MECHANICAL DIMENSION**

### **Outline**



### **Dimension**

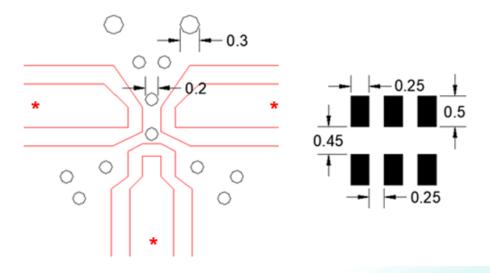
L	L W T		а	
1.60±0.15	0.80±0.10	0.60±0.10	0.20±0.10	
b	С	р		
0.15±0.10	0.20±0.10	0.50±0.05		

NOTE: Dimensions in mm.

<u>Termination</u>						
7	Top View					
6	(5)	4				
<u> </u>	(2)	3				

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

# Reference design of EVB



Unit: mm

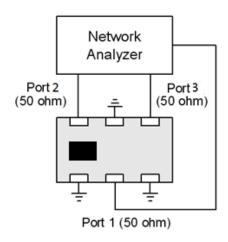
<sup>\*</sup>Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.



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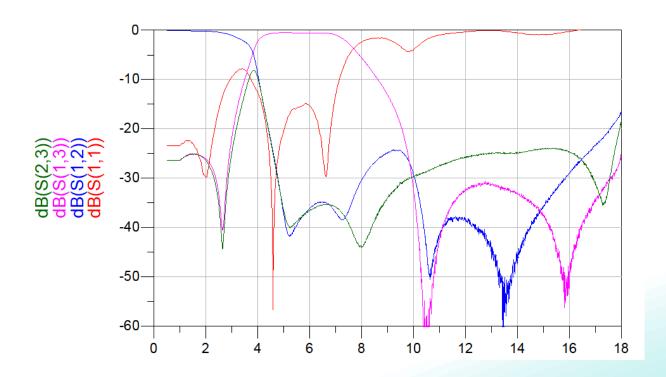
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### **MEASURING DIAGRAM**



Test Instrument:
Agilent E5071C Network Analyzer or equivalent.

### **ELECTRICAL PERFORMANCES**





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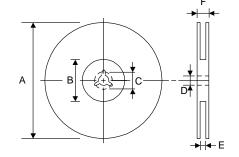
### **PACKING SPECIFICATION**

#### Peel-off force



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

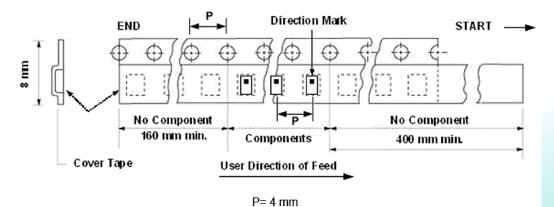
### **Dimension (Unit: mm)**



TYPE	A	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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<b>REVIS</b>	ION HI	STORY
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RevisionDateDescriptionVersion 1Nov. 11, 2022- New issue



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## Pulse:

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