

Description: 1608 Diplexer

PART NUMBER: DPX1608LKECR2460A

## Features:

# **Applications:**

Compact Size

• For wireless application.

- Low loss
- High Soldering Heat Resistance

# **ELECTRICAL SPECIFICATIONS**

Low-Band				-
Item	Frequency Range(MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400~2500	-	0.75	0.85
Insertion Loss(dB) at -40~85°C	2400~2500	-	-	0.95
Return Loss (dB)	2400~2500	13	22.7	-
	30~1000	8	11.9	-
	4800~7125	28	33.3	-
Attenuation (dB)	7200~7500	30	35.2	-
	7700~7950	25	37.3	-
	7500~12000	20	34.0	-

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## ELECTRICAL SPECIFICATIONS

High-Band				
Item	Frequency Range(MHz)	Min.	Тур.	Max.
Incertion Lass (dD)	5150~5875	-	0.85	1.15
Insertion Loss (dB)	5875~7125	-	0.77	1.15
Insertion Loss (dB)	5150~5875	-	-	1.35
at -40~85°C	5875~7125	-	-	1.35
Return Loss (dB)	5150~7125	11	19.6	-
	1000~2300	25	34.7	-
	2400~2500	38	42.0	-
Attenuation (dB)	2700~3500	10	13.6	-
()	10300~14250	20	23.7	-
	15450~21375	15	25.3	-
Common				
Item	Frequency Range(MHz)	Min.	Тур.	Max.
	2400~2500	13	22.3	-
Return Loss (dB)	5150~7125	11	19.3	-
solation	•	-	•	•
Item	Frequency Range(MHz)	Min.	Тур.	Max.
	2400~2500	38	42.3	-

	15450~21375	10	14.1	-
High to Low (dB)	4800~7125	25	33.4	-
	2400~2500	38	42.3	-

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



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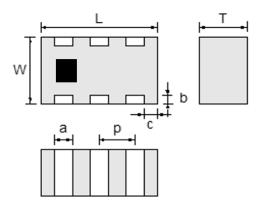


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### **MECHANICAL DIMENSION**

### **Outline**



<u>Dimension</u>	L	W	Т	а
	1.60±0.15	0.80±0.10	0.70±0.10	0.20±0.10
	b	С	р	
	0.15±0.10	0.20±0.15	0.50±0.05	

NOTE : Dimensions in mm.

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R<sub>o</sub>HS

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

## **Reference design of EVB**

6

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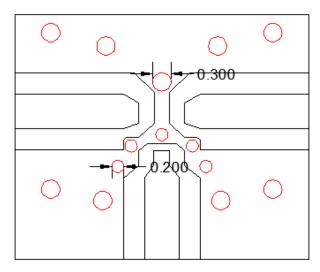
Termination Top View

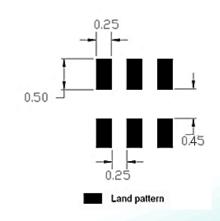
2

(5)

3

(4)





Unit : mm

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

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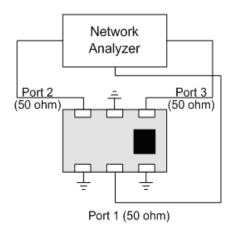
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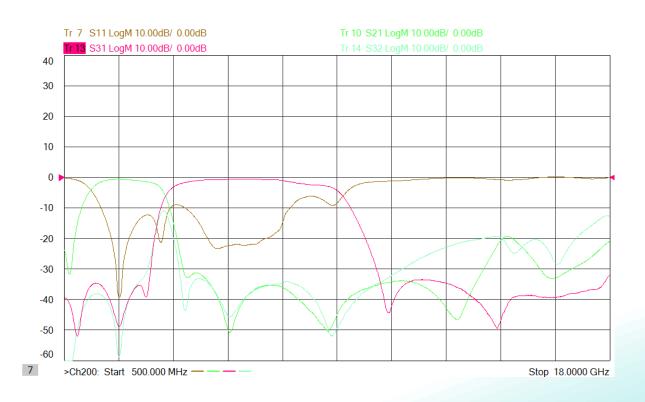
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### **MEASURING DIAGRAM**



Test Instrument : Agilent E5071C Network Analyzer or equivalent.

## **ELECTRICAL PERFORMANCES**



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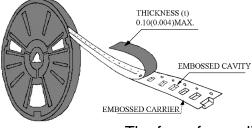


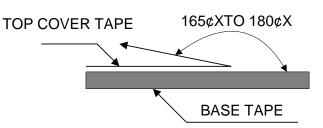
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## **PACKING SPECIFICATION**

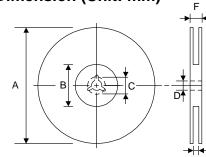
#### **Peel-off force**





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

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



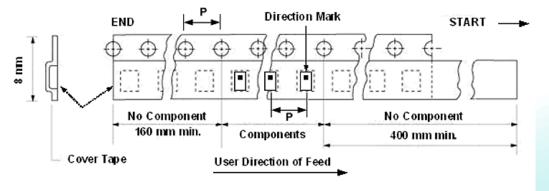
TYPE	Α	В	С	D	E	F
8 mm	178±1	60+0.5 -0	-	13±0.2	9±0.5	12±0.5
12 mm	178±0.3	60±0.2	19.3±0.1	13.5±0.1	13.6±0.1	-

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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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		<b>REVISION HISTORY</b>	
Revision	Date	Description	
Version 1	May. 16, 2023	- New issue	

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