

Description: 1608 Diplexer

PART NUMBER: DPX1608LKV7R2460A

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- wireless

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400~2500	-	0.65	1
Return Loss (dB)	2400~2500	10	14.9	-
Attenuation (dB)	1164~1300	15	21.8	-
	1559~1601	13	17.2	-
	4800~7100	20	23.9	-
	7200~7500	20	27.6	-
	9600~10000	20	25.6	-

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ELECTRICAL SPECIFICATIONS

High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	5150~5300	-	1.29	1.5
	5925~6425	-	1.03	1.2
	6525~6875	-	0.77	1.2
	6875~7125	-	0.97	1.2
Return Loss (dB)	5150~7125	10	14.2	-
Attenuation (dB)	824~849	35	55.5	-
	1164~1600	30	40.1	-
	1601~2400	30	40.1	-
	2400~2500	35	45.4	-
	2501~3299	26	32.6	-
	3300~4200	28	34.7	-
	9800~14250	20	30.9	-
	14700~21375	10	18.4	-

Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return Loss (dB)	2400~2500	10	17	-
	5150~7125	10	15.2	-

Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Low to High (dB)	2400~2500	40	44.8	-
	4800~7100	20	26.4	-

Operating Temperature Range : -40~85°C

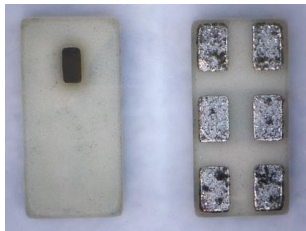
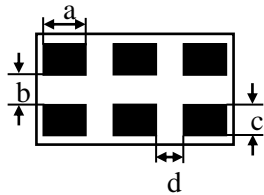
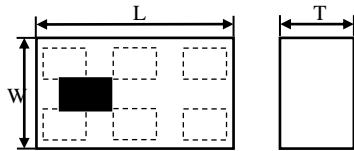
Power Capacity : 3W max.

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MECHANICAL DIMENSION

Outline



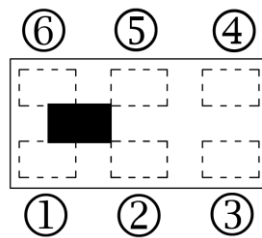
Dimension

L	W	T	a
1.60±0.10	0.80±0.10	0.70 max.	0.35±0.05
b	c	d	
0.22±0.05	0.225±0.05	0.22±0.05	

NOTE : Dimensions in mm.

Termination

Top View

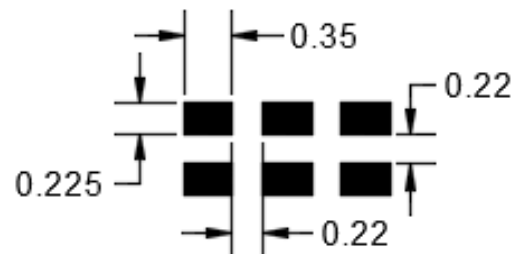
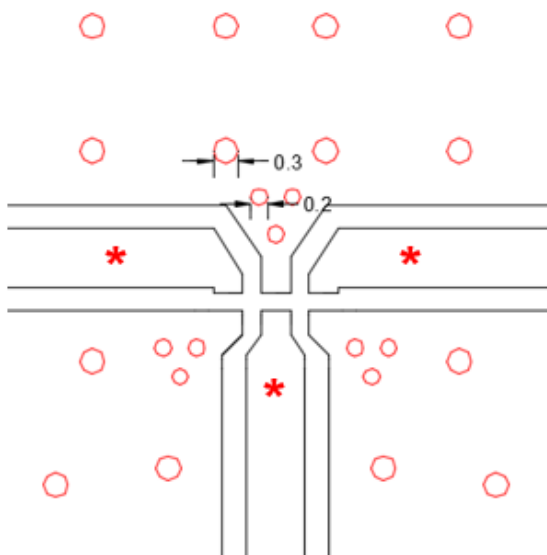


Terminal name

Function

Terminal name	Function
1	Low band
2	GND
3	High 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.

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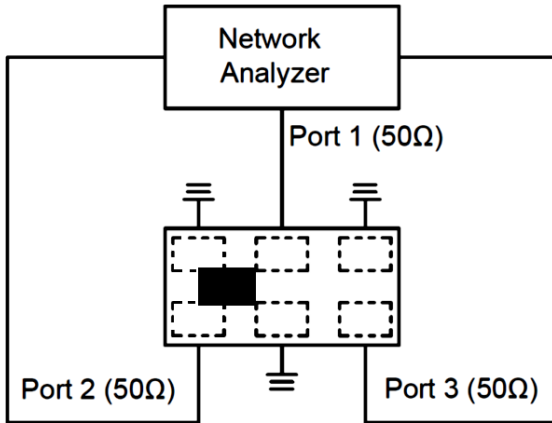
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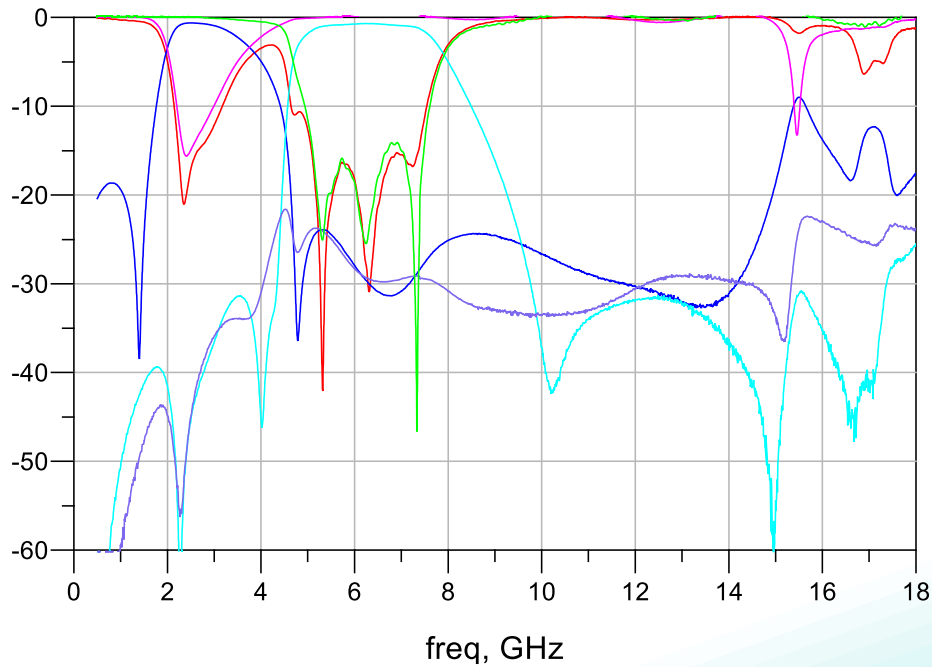
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MEASURING DIAGRAM



Test Instrument :
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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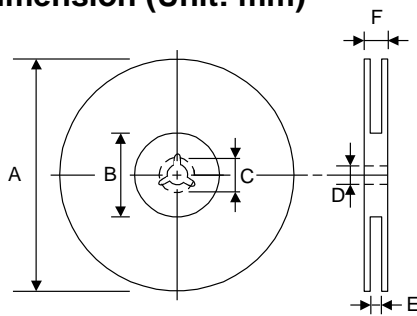
PACKING SPECIFICATION

Peel-off force



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

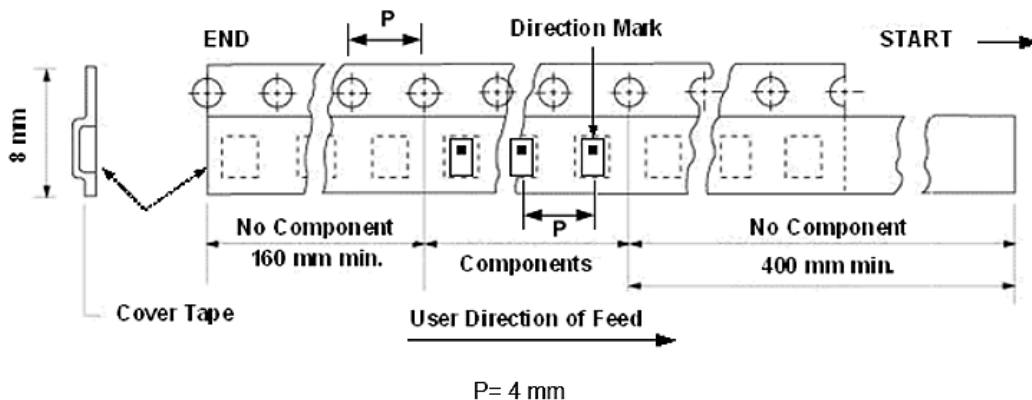
Dimension (Unit: mm)



TYPE	A	B	C	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 HISTORY

Revision	Date	Description
Version 1	Mar. 02, 2023	- New issue