

Description: 1608 2.4G&5GHz Diplexer

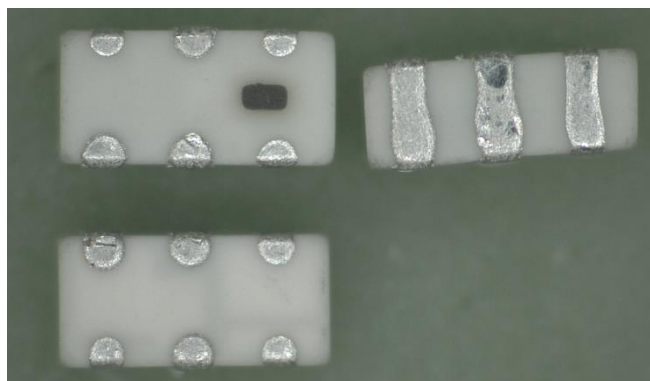
PART NUMBER: DPX1608LKG9R2460A

Features:

- Compact Size
- RoHS compliant

Applications:

- WiFi 6E



ELECTRICAL SPECIFICATIONS

Low band

Item	Frequency (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400~2500	-	1.08	1.30
Return Loss (dB)	2400~2500	10	28.3	-
Attenuation (dB)	700~1300	20	22.5	-
	4700~4900	30	42.4	-
	7100~7400	30	34.5	-

High band

Item	Frequency (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	5100~7300	-	1.06	1.30
Return Loss (dB)	5100~7300	10	11.2	-
Attenuation (dB)	1600~2000	26	29.2	-
	2300~3000	25	29.4	-
	10200~14500	25	31.2	-
	15400~21700	15	21.2	-

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

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Description: 1608 2.4G&5GHz Diplexer**PART NUMBER:** DPX1608LKG9R2460A**ELECTRICAL SPECIFICATIONS****Common**

Item	Frequency (MHz)	Min.	Typ.	Max.
Return Loss (dB)	2400~2500	10	23.8	-
	5100~7300	10	11.2	-

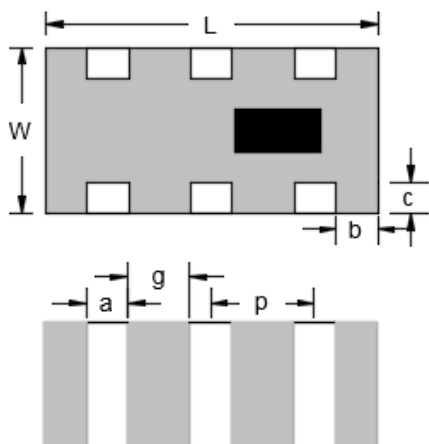
Operating Temperature Range : -40~85°C

Power Capacity : 3W max.

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MECHANICAL DIMENSION

Outline

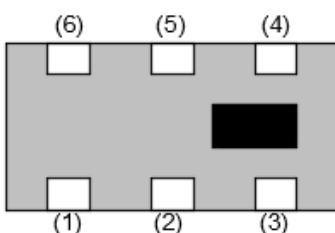


Dimension

L	W	T	a
1.60 ± 0.10	0.80 ± 0.10	0.70 max.	0.20 ± 0.10
b	c	g	p
0.20 ± 0.15	0.15 ± 0.10	0.30 ± 0.10	0.50 ± 0.05

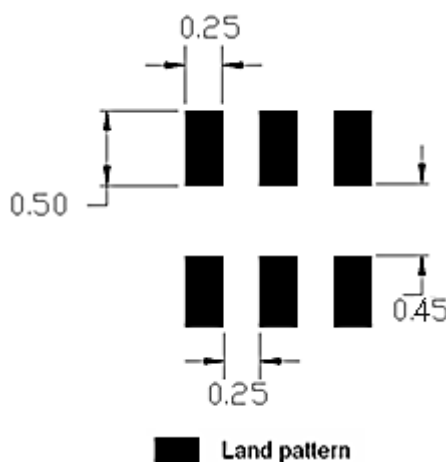
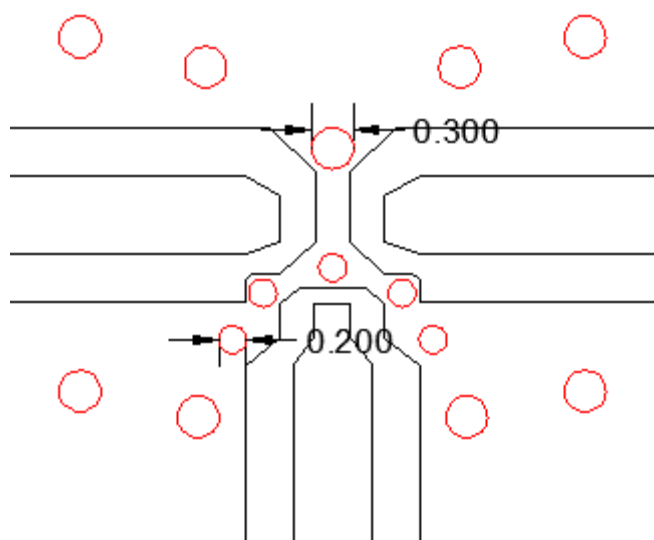
NOTE : Dimensions in mm.

Termination



Terminal name	Function
P1	GND
P2	Common
P3	GND
P4	High band
P5	GND
P6	Low band

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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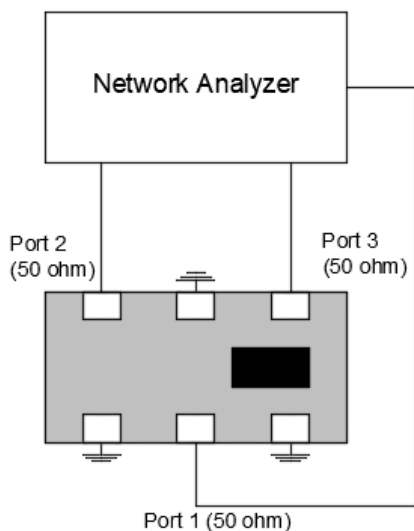
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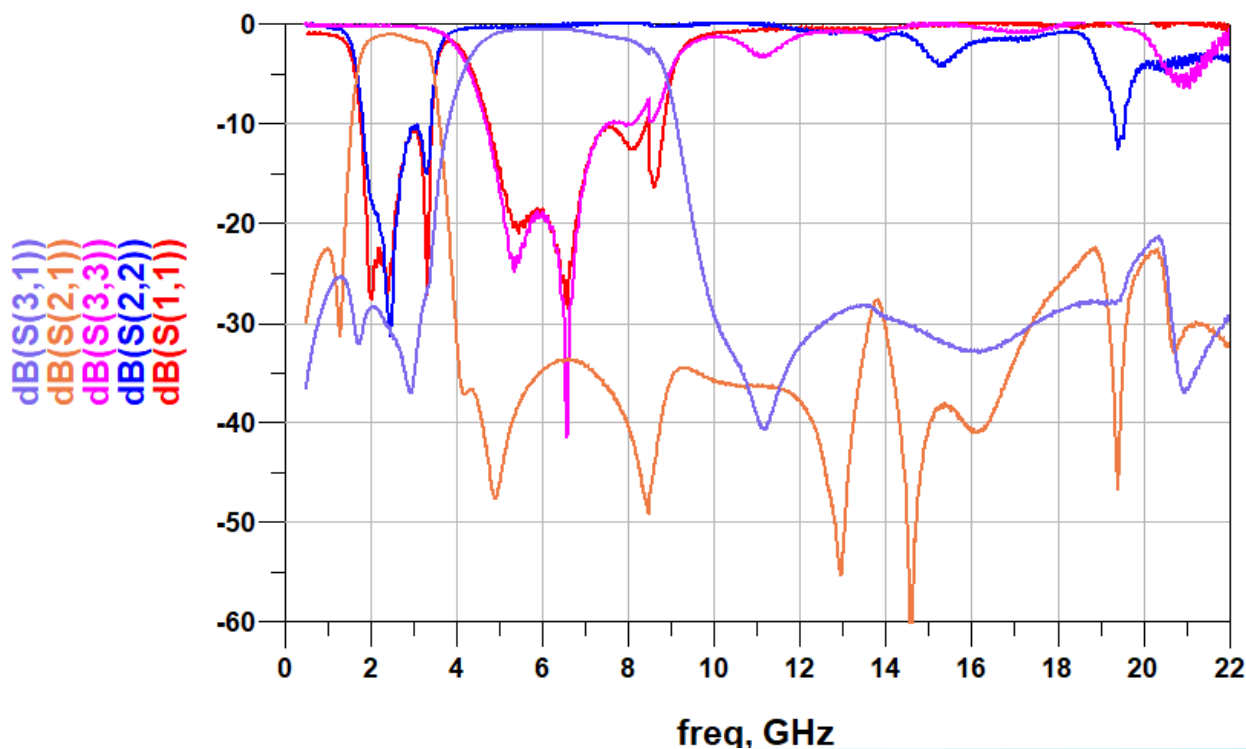
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MEASURING DIAGRAM



Test Instrument :
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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PACKING SPECIFICATION

Peel-off force



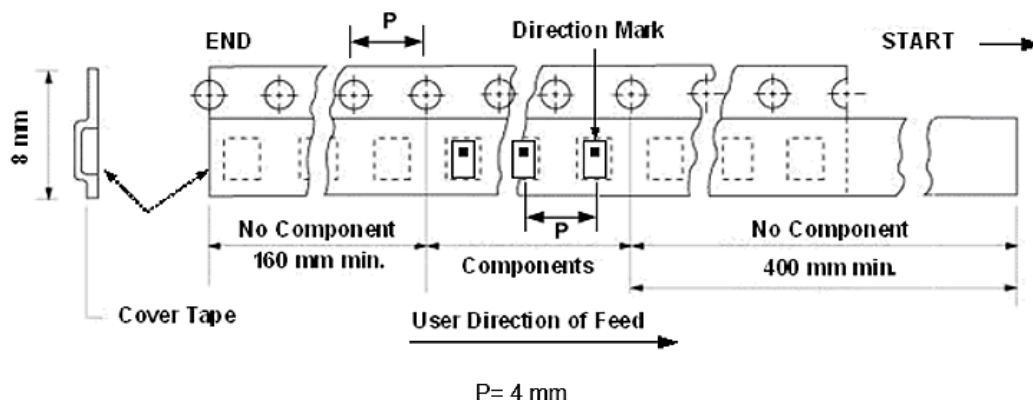
The force for peeling of cover tape is 10 grams in the arrow direction.

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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Description: 1608 2.4G&5GHz Diplexer**PART NUMBER:** DPX1608LKG9R2460A**REVISION HISTORY**

Revision	Date	Description
version 1	Aug. 02, 2023	- New issue

Mouser Electronics

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