TECHNICAL DATA SHEET

Description: 1608 Diplexer

PART NUMBER: DPX1608LKF4R2460A
(Preliminary)

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- WiFi 6E.

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400~2483	-	1.35	TBD
Return Loss (dB)	2400~2483	TBD	12.2	-
Attenuation (dB)	400~960	TBD	23.1	-
	1425~1557	TBD	17.1	-
	1557~1607	TBD	14.9	-
	1626~1661	TBD	12.4	-
	1710~2025	TBD	5.2	-
	3300~4200	TBD	1.5	-
	4400~4800	TBD	37.2	-
	4800~5000	TBD	39.6	-
	5150~5925	TBD	39.5	-
	5925~7125	TBD	43.6	-
	7200~7500	TBD	41.9	-
	9600~10000	TBD	36.7	-
	12000~12410	TBD	29.4	-
	14412~14892	TBD	22.3	-
	16814~17374	TBD	23.8	-

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ELECTRICAL SPECIFICATIONS

High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	5170~7125	-	0.97	TBD
Return Loss (dB)	5170~7125	TBD	10.4	-
Attenuation (dB)	400~915	TBD	28.2	-
	915~960	TBD	28.4	-
	1425~1470	TBD	35.2	-
	1470~1557	TBD	36.8	-
	1557~1607	TBD	44.4	-
	1625~1661	TBD	45.8	-
	1710~2025	TBD	33.5	-
	2300~2400	TBD	36.4	-
	2400~2482	TBD	42.4	-
	2496~2690	TBD	32.3	-
	2690~3560	TBD	13.0	-
	8025~8647	TBD	1.34	-
	8647~10340	TBD	2.6	-
	10340~10600	TBD	20.7	-
	10600~12700	TBD	30.4	-
	12700~13250	TBD	39.3	-
	13250~13400	TBD	42.3	-
	13400~14250	TBD	43.8	-
	14412~14892	TBD	41.5	-
	15510~16200	TBD	41.7	-
	16200~17700	TBD	37.6	-

RoHS COMPLIANT

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ELECTRICAL SPECIFICATIONS

Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return Loss (dB)	2400~2483	10	17.0	-
	5170~7125	10	11.6	-

Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Isolation (dB)	2400~2482	TBD	43.7	-
	5150~7125	TBD	40.6	-
	12000~12410	TBD	30.8	-
	16800~17373	TBD	23.1	-

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

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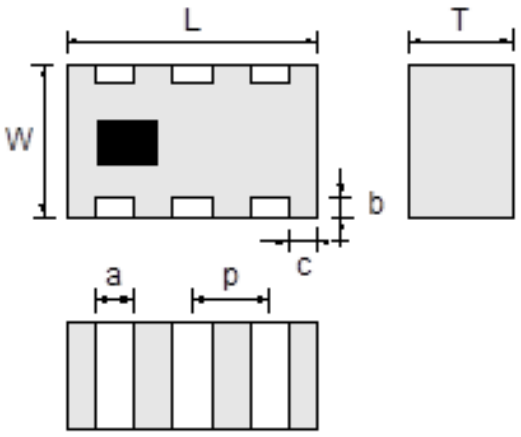
MECHANICAL DIMENSION

Outline



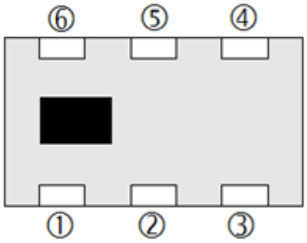
Dimension

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

NOTE：Dimensions in mm.

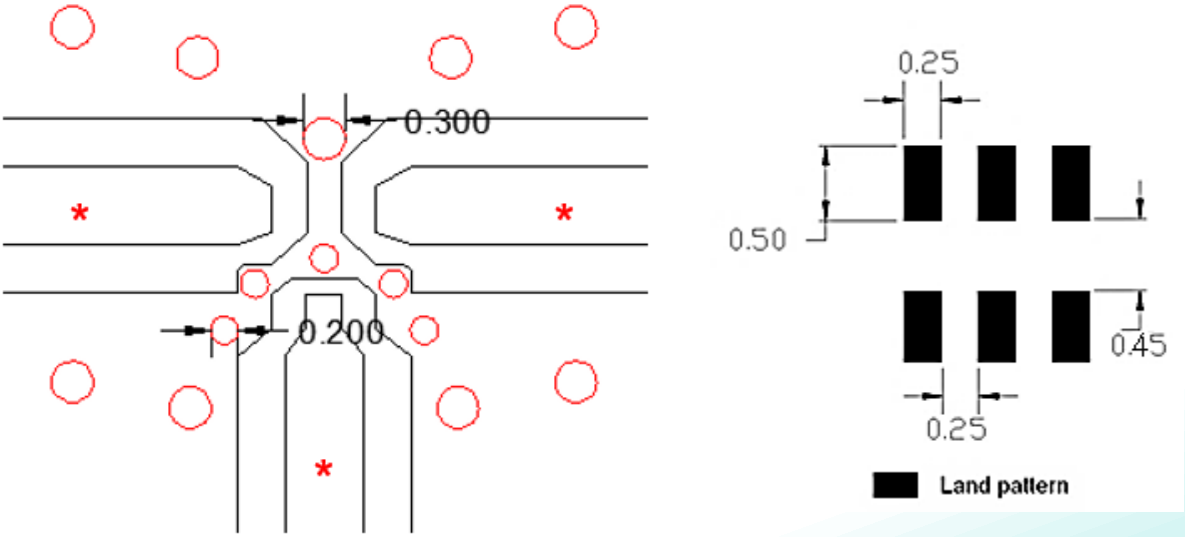
Termination

Top View



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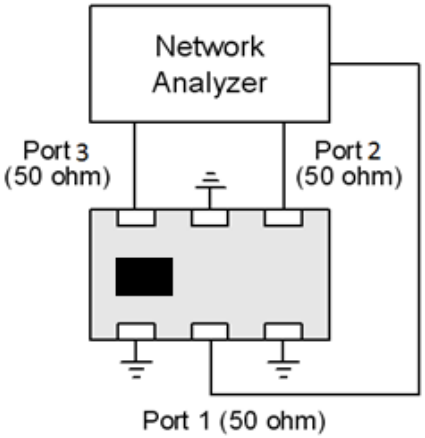
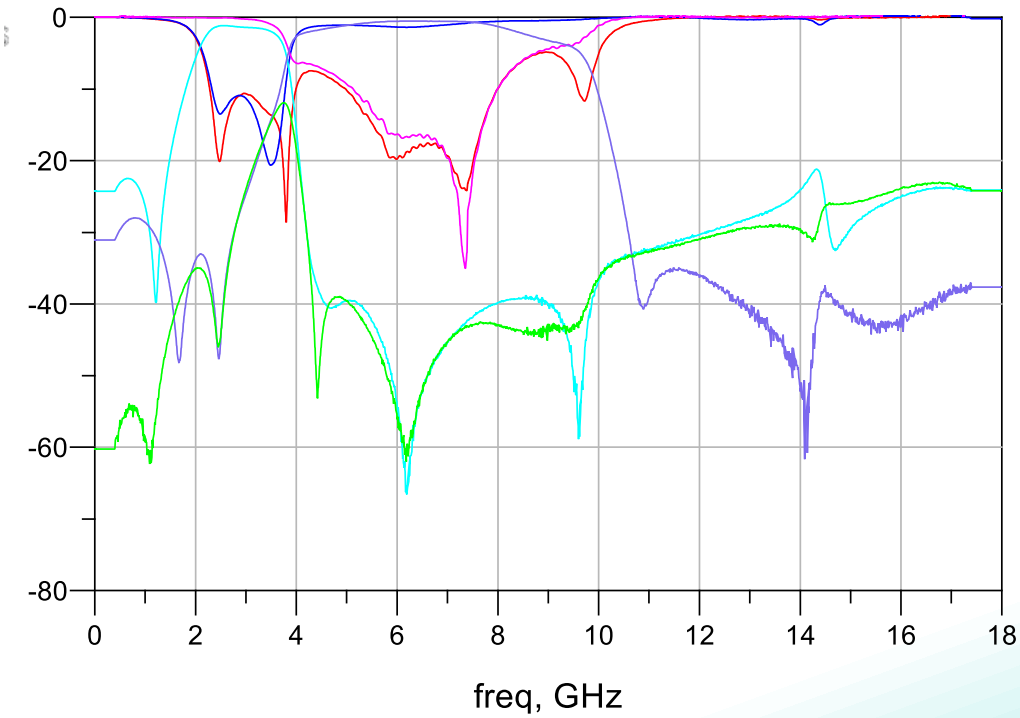
MEASURING DIAGRAM



Test Instrument：
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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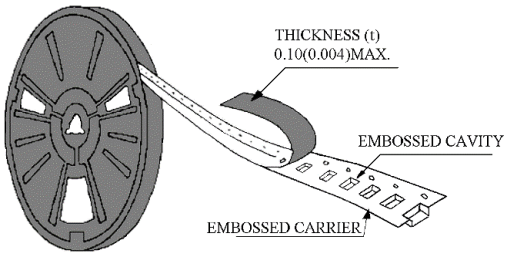
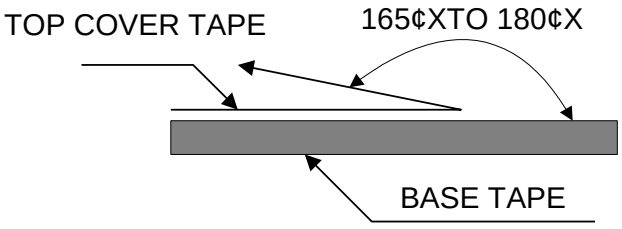
PACKING SPECIFICATION

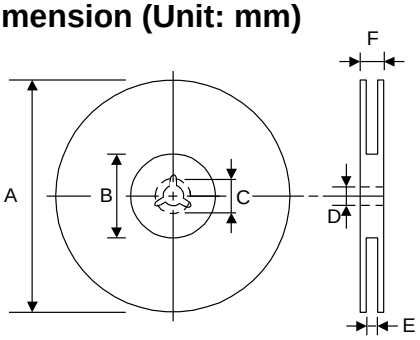
Peel-off force





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

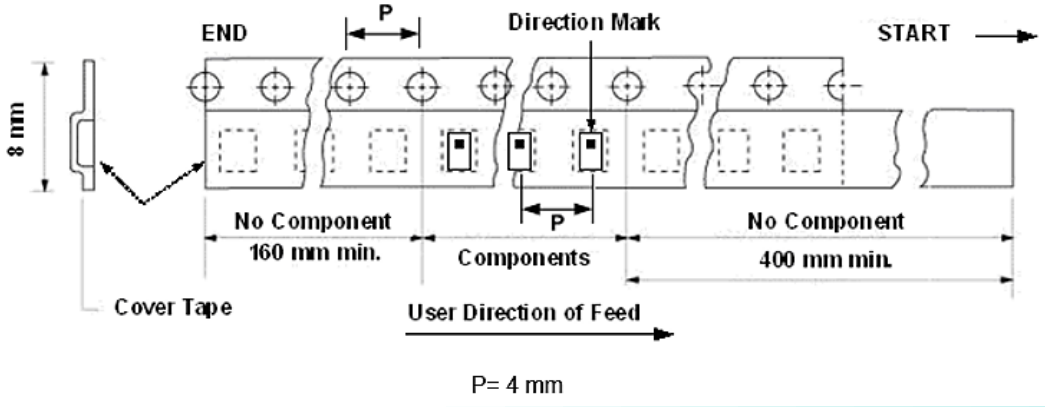
Dimension (Unit: mm)



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. 29, 2022	- New issue
Version 2	Aug. 22, 2022	- Update measure electrical.

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