

Description: 1608 Diplexer
PART NUMBER: DPX1608LKUER2460L
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)	2400~2500	-	0.45	0.65
Return loss (dB)	2400~2500	12	18.7	-
Attenuation (dB)	4800~7125	35	36.5	-
	7200~7500	33	36.9	-
	7700~7950	30	33.4	-
	7950~12000	15	29.2	-

High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	5150~5875	-	0.85	1.25
	5875~7125	-	0.53	1.25
Return loss (dB)	5150~7125	10	-	-
Attenuation (dB)	100~2300	35	46.2	-
	2400~2500	35	40.4	-
	2700~3500	14	17.5	-
	10300~14250	32	35.9	-
	15450~21375	12	22.7	-

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

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Description: 1608 Diplexer
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ELECTRICAL SPECIFICATIONS
Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return loss (dB)	2400~2500	12	17.0	-
	5150~7125	10	-	-

Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Isolation (dB)	4800~5000	36	41.6	-
	5150~7125	33	36.9	-
	7200~7500	33	39.7	-
	10300~14250	20	57.1	-
	15450~21375	10	29.0	-

*Impedance for high-band = Match to client's chipset

Operating Temperature Range : -40~85°C

Power Capacity : 3W max.

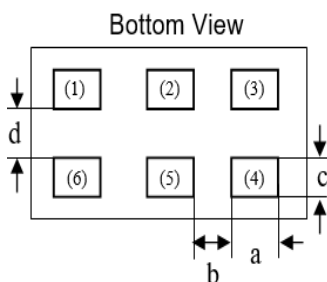
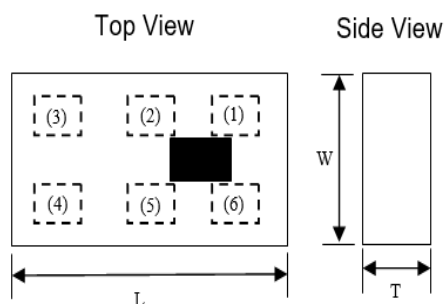
Description: 1608 Diplexer

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MECHANICAL DIMENSION

Outline

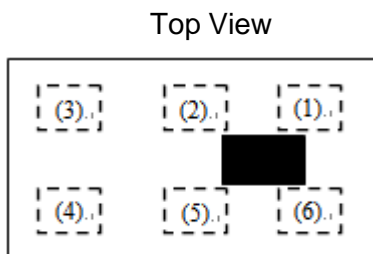
Dimension



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

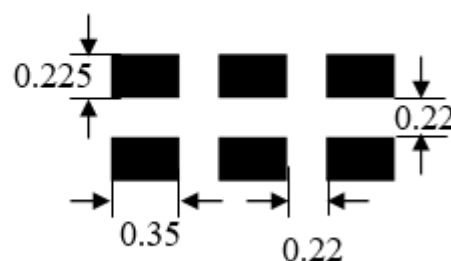
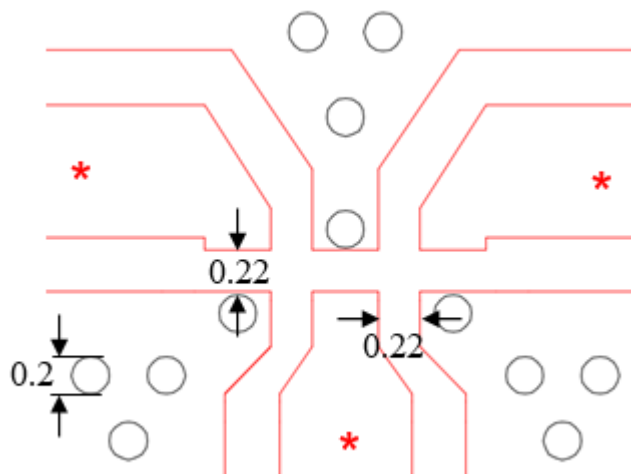
NOTE : Dimensions in mm.

Termination



Terminal name	Function
1	High band
2	GND
3	Low 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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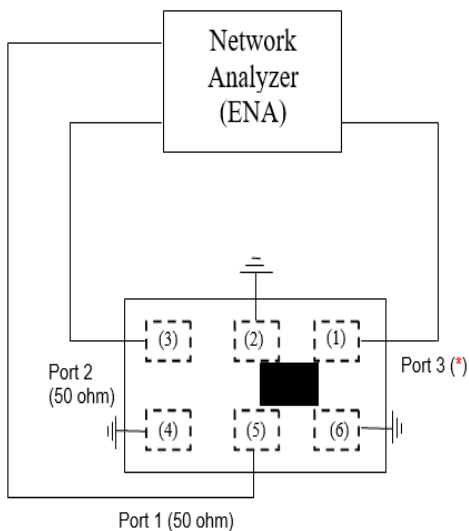
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MEASURING DIAGRAM

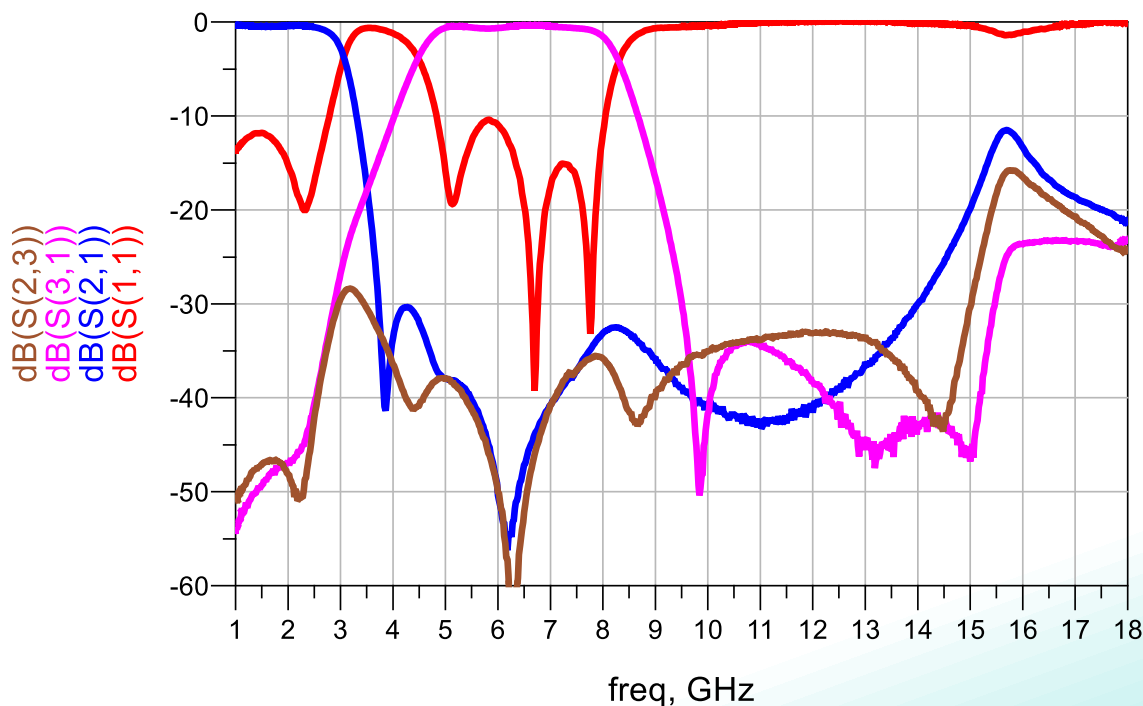


Test Instrument :

Agilent E5071C Network Analyzer or equivalent.

*Impedance for high-band = Match to client's chipset

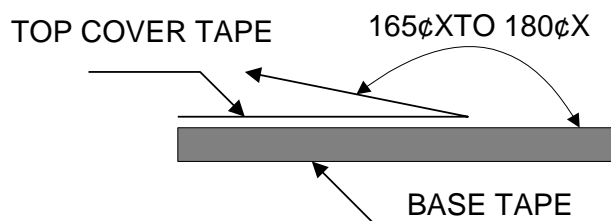
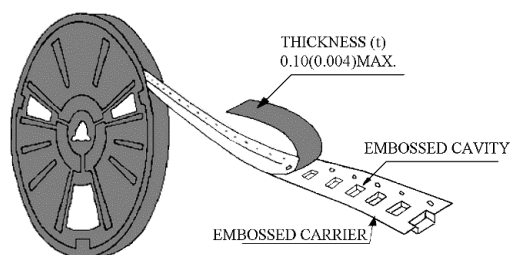
ELECTRICAL PERFORMANCES



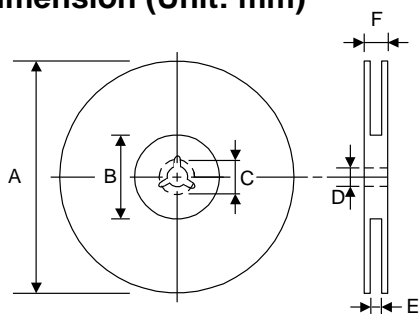
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Description: 1608 Diplexer
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PACKING SPECIFICATION
Peel-off force


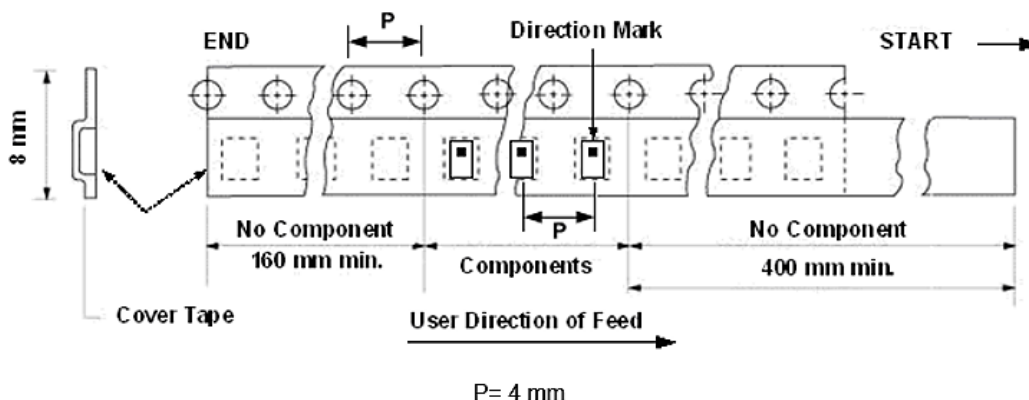
The force for peeling of cover tape is 10 grams in the arrow direction.

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 Diplexer**PART NUMBER:** DPX1608LKUER2460L**REVISION HISTORY**

Revision	Date	Description
Version 1	May. 18, 2023	- New issue

Mouser Electronics

Authorized Distributor

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