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Pulse
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 Diplexer

PART NUMBER: DPX1608LKFBR2460L

Features:

- Compact size
- RoHS compliant

Applications:

- WLAN, 802.11a/b/g/n/ax
- WiFi 6E
- ISM Band

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400~2500	-	0.53	0.7
Return Loss (dB)	2400~2500	12	22.4	-
Attenuation (dB)	3300~4800	2	4.7	-
	4800~5000	33	36.7	-
	5170~7125	28	37.0	-
	7200~7500	30	43.8	-
	9600~10000	24	28.8	-
	12000~12500	17	20.4	-

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For more information:

RoHS COMPLIANT

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ELECTRICAL SPECIFICATIONS

High-Band

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	5170~7125	-	0.77	0.9
Return Loss (dB)	5170~7125	10	17.7	-
Attenuation (dB)	70~108	40	50.0	-
	700~915	35	41.0	-
	915~960	35	41.4	-
	1425~1470	35	44.8	-
	1470~1557	35	44.9	-
	1557~1607	35	46.9	-
	1710~1785	35	48.9	-
	1805~1850	35	49.8	-
	1850~1910	35	49.1	-
	1910~2020	35	47.6	-
	2110~2200	30	40.8	-
	2300~2400	26	35.0	-
	2400~2500	25	32.5	-
	2500~2690	20	28.9	-
	3400~3800	10	16.1	-
	10340~14250	25	27.3	-
	15510~16500	27	33.1	-
	16500~21375	-	12.5	-

Common

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Return Loss (dB)	2400~2500	10	17.6	-
	5170~7125	10	19.6	-

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

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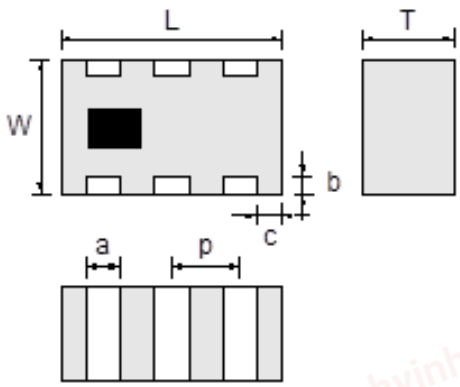
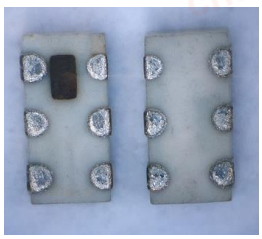
MECHANICAL DIMENSION

Outline





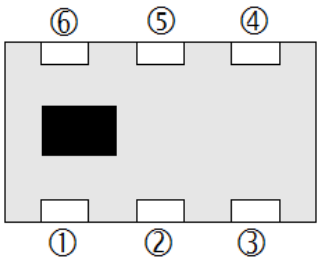
Dimension

L	W	T	a
1.60±0.15	0.80±0.10	0.60±0.10	0.20±0.10
b	c	p	
0.15±0.10	0.20±0.10	0.50±0.05	

NOTE：Dimensions in mm.

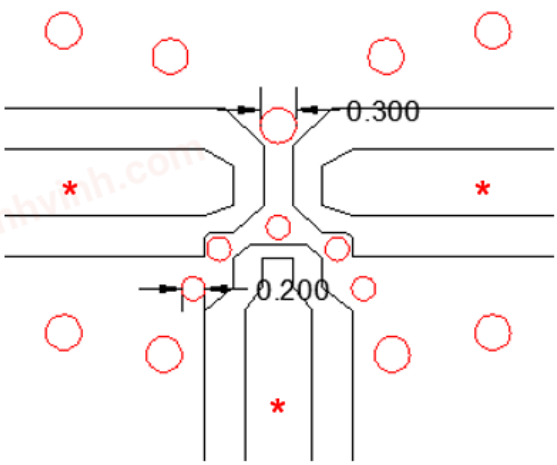
Termination

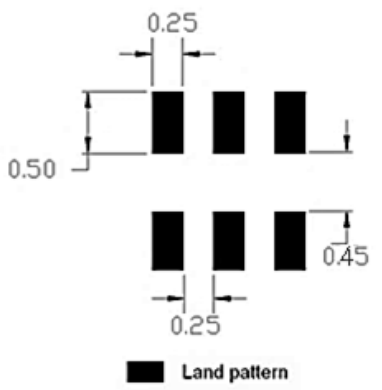
Top View



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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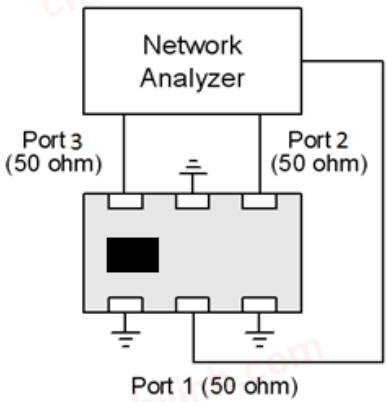
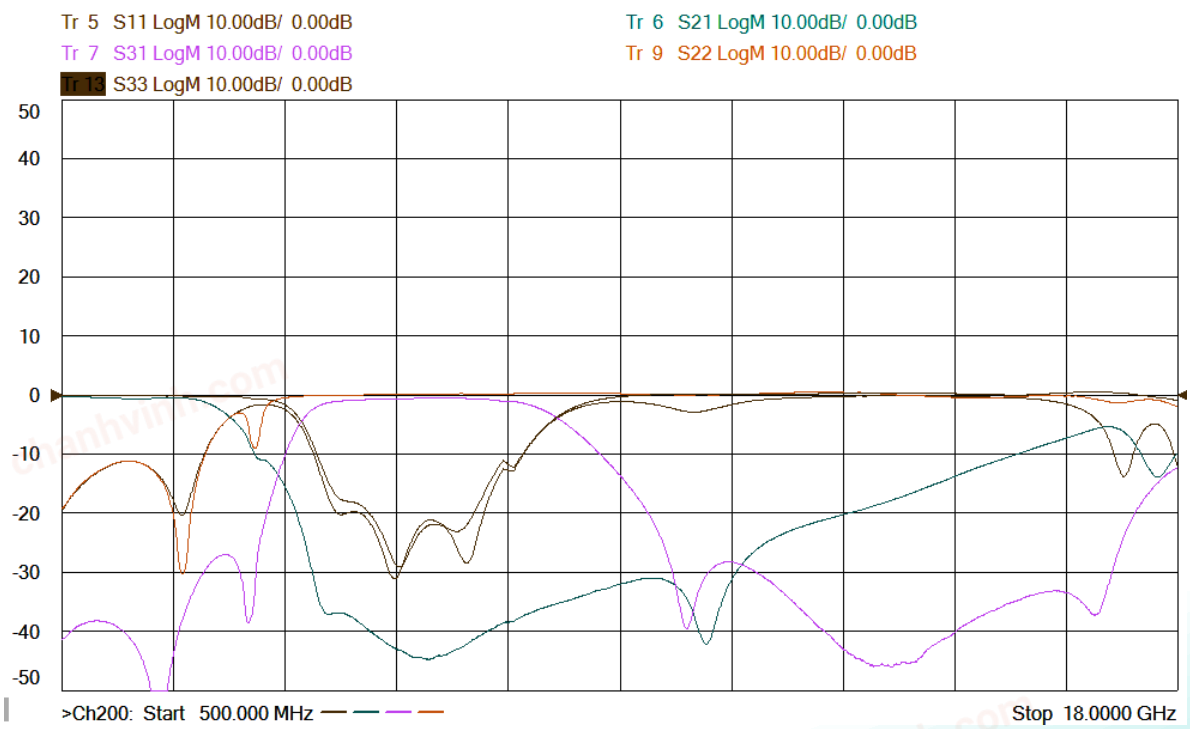
MEASURING DIAGRAM



Test Instrument：
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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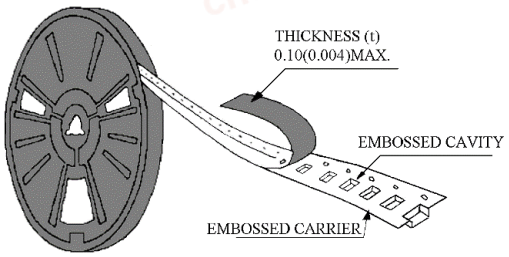
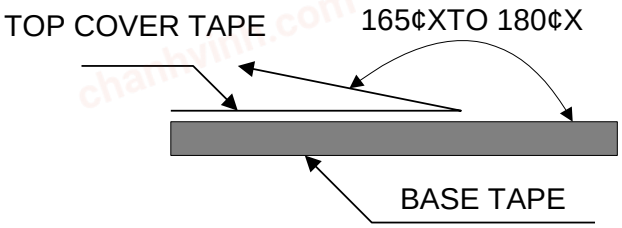
PACKING SPECIFICATION

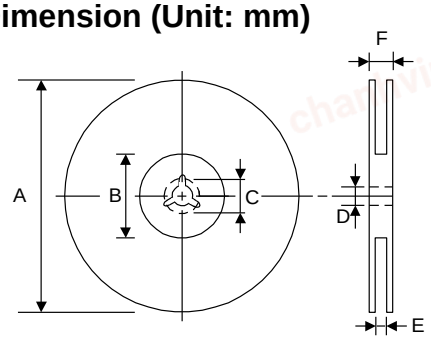
Peel-off force





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

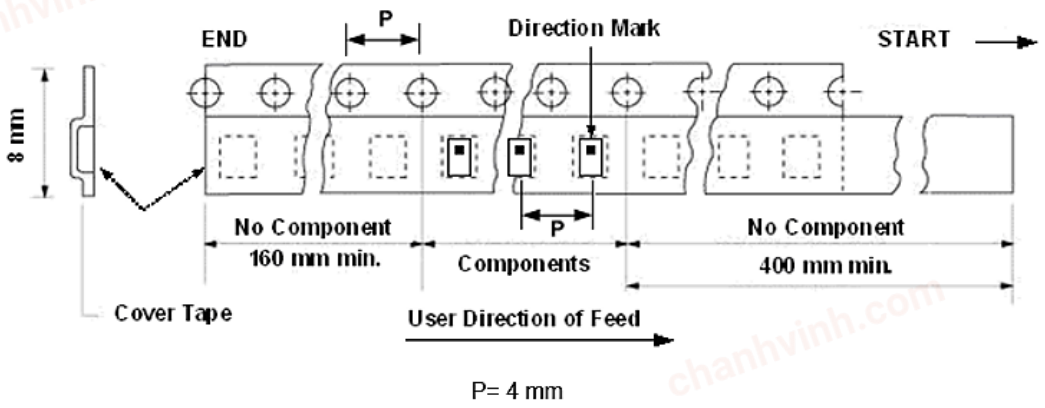
Dimension (Unit: mm)



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	Feb. 24, 2022	- New issue

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