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Pulse A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 Diplexer

PART NUMBER: DPX1608LKE7R2460A

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- WLAN
- WiFi6E
- WiFi7

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	2400~2500	-	0.66	0.8
Return loss (dB)	2400~2500	10	15.0	-
Attenuation (dB)	30~1000	8	14.3	-
	4800~7125	33	38.3	-
	7200~7500	33	38.9	-
	7700~7950	33	44.1	-
	7500~12000	15	22.5	-

High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	5150~7125	-	0.88	1.2
Return loss (dB)	5150~7125	10	-	-
Attenuation (dB)	100~1000	35	60.9	-
	1000~2300	35	45.8	-
	2400~2500	35	45.3	-
	2700~3500	20	23.9	-
	9600~14250	25	28.5	-
	14700~21375	10	19.2	-

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

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ELECTRICAL SPECIFICATIONS

Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return loss (dB)	2400~2500	10	15.0	-
	5150~7125	10	-	-

Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
HB to LB (dB)	2400~2500	35	45.9	-
	4800~7125	33	40.6	-
	10300~14250	-	21.3	-
	15450~20000	-	17.9	-

*Impedance for high-band = Match to client's chipset
Operating Temperature Range：-40~85°C
Power Capacity：3W max.

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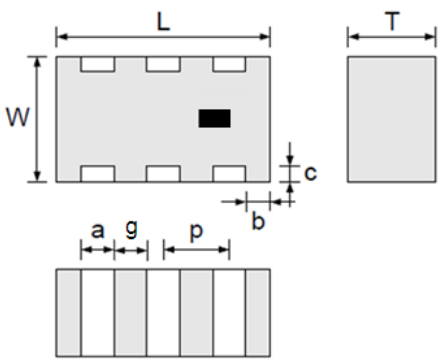
MECHANICAL DIMENSION

Outline





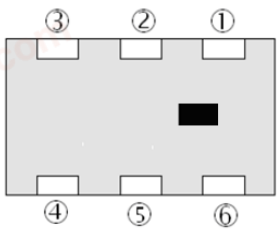
Dimension

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.

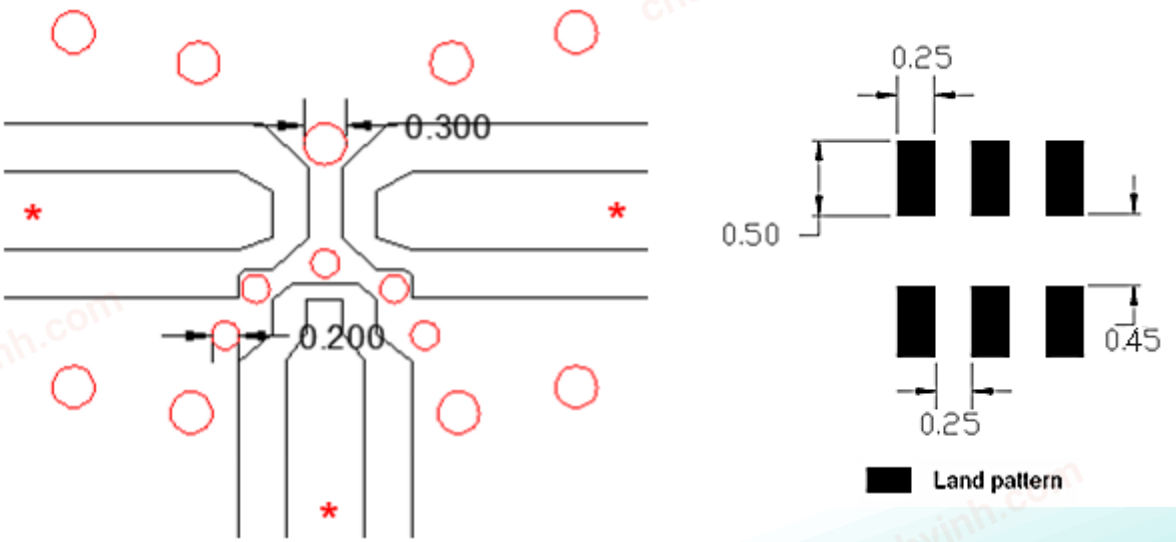
Termination

Top View



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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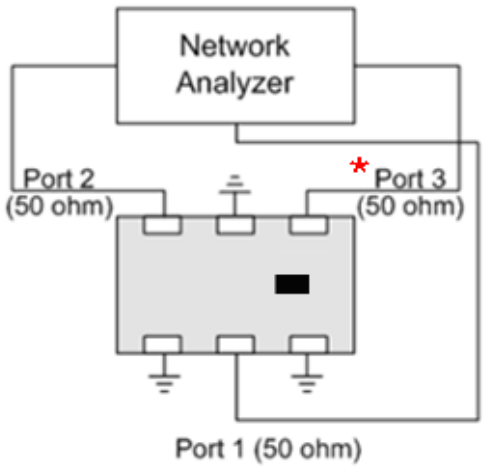
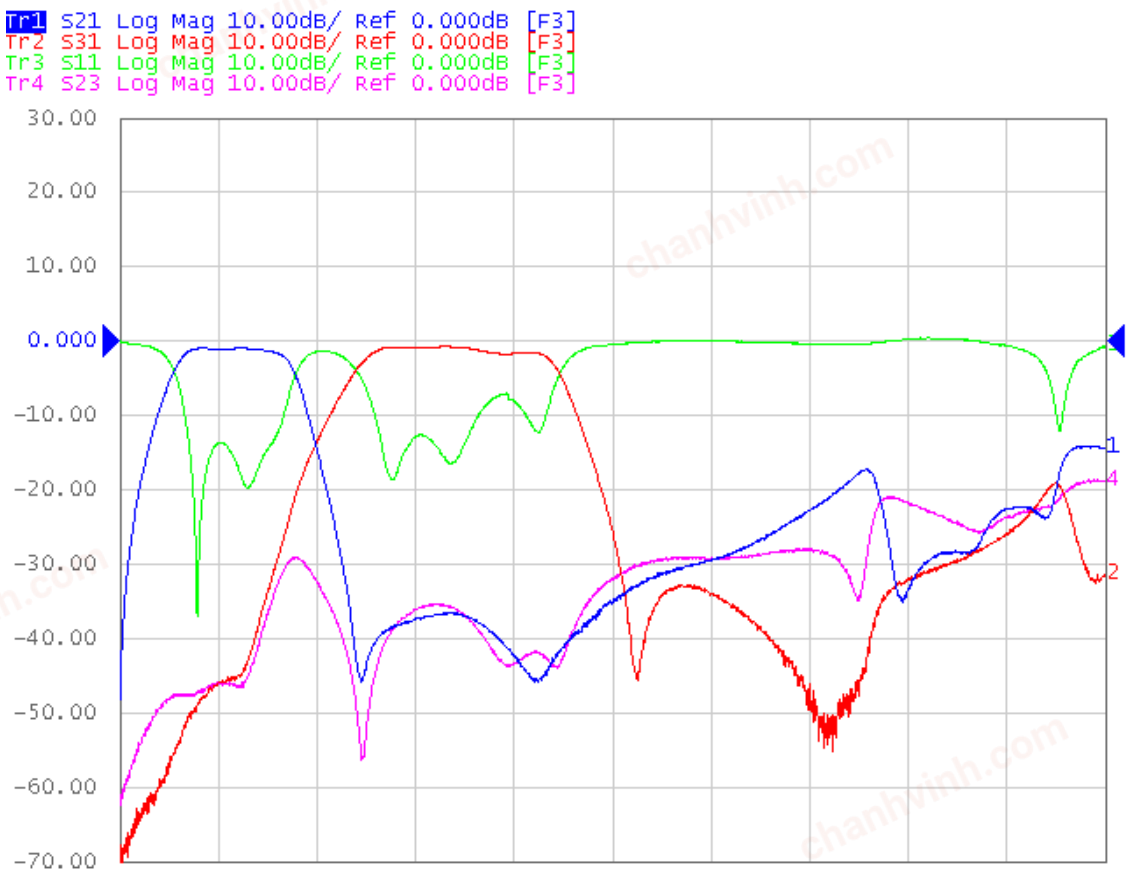
MEASURING DIAGRAM



Test Instrument：
Agilent E5071C Network Analyzer or equivalent.
*Impedance for high-band=Match to client's chipset

ELECTRICAL PERFORMANCES



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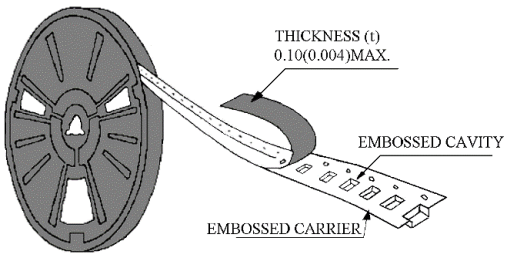
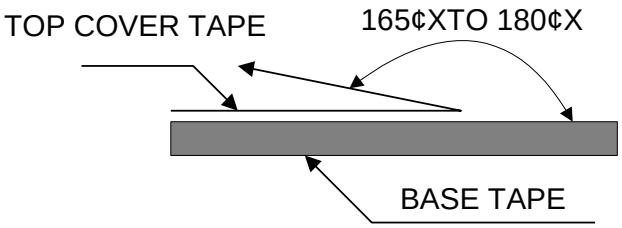
PACKING SPECIFICATION

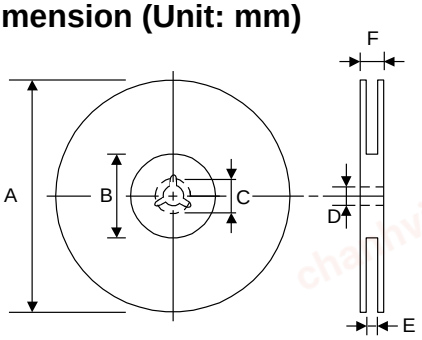
Peel-off force





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

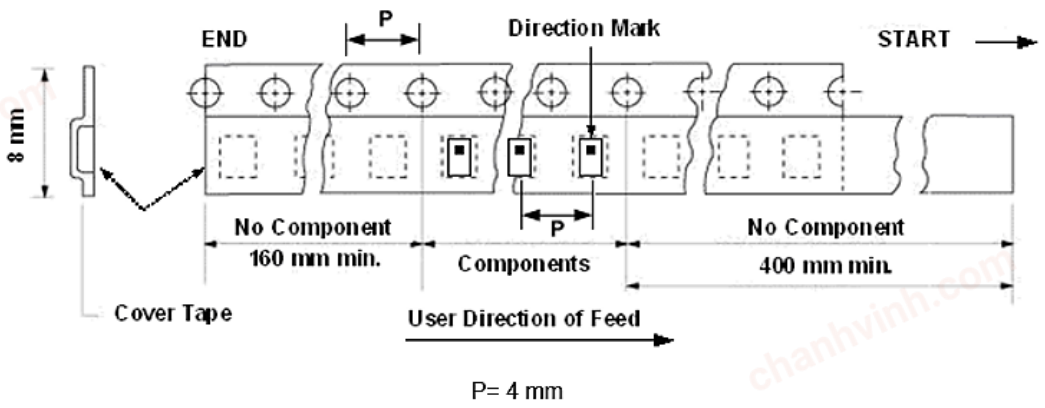
Dimension (Unit: mm)



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	Oct. 28, 2022	- New issue

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