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Pulse
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 Diplexer

PART NUMBER: DPX1608LKEFR2455L

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- WiFi

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400~2500	-	0.73	0.85
Insertion Loss(dB) at -40~85°C	2400~2500	-	-	0.95
Return Loss (dB)	2400~2500	13	18.4	-
Attenuation (dB)	30~1000	15	22.7	-
	4800~7125	30	32.5	-
	7200~7500	30	34.9	-
	7500~12000	20	28.8	-

High-Band

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	5150~5875	-	0.84	1.20
Insertion Loss (dB) at -40~85°C	5150~5875	-	-	1.45
Return Loss (dB)	5150~5875	13	21.5	-
Attenuation (dB)	100~2300	30	33.2	-
	2400~2500	40	44.1	-
	2700~3500	15	23.7	-
	10300~11750	20	23.0	-
	15450~17625	20	25.0	-

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ELECTRICAL SPECIFICATIONS

Common

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Return Loss (dB)	2400~2500	13	24.4	-
	5150~5875	13	21.2	-

Isolation

Item	Frequency Range(MHz)	Min.	Typ.	Max.
High to Low (dB)	2400~2500	40	49.1	-
	4800~5000	25	34.4	-

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

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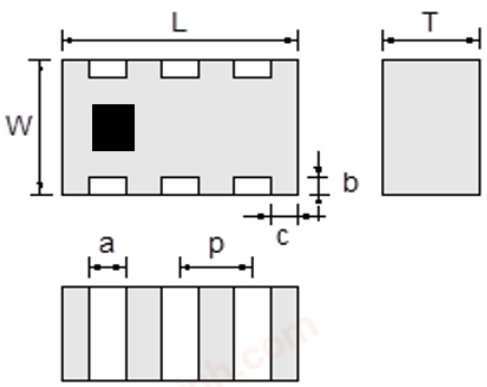
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MECHANICAL DIMENSION

Outline



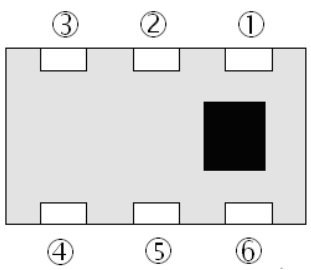
Dimension

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±0.15	0.50±0.05	

NOTE：Dimensions in mm.

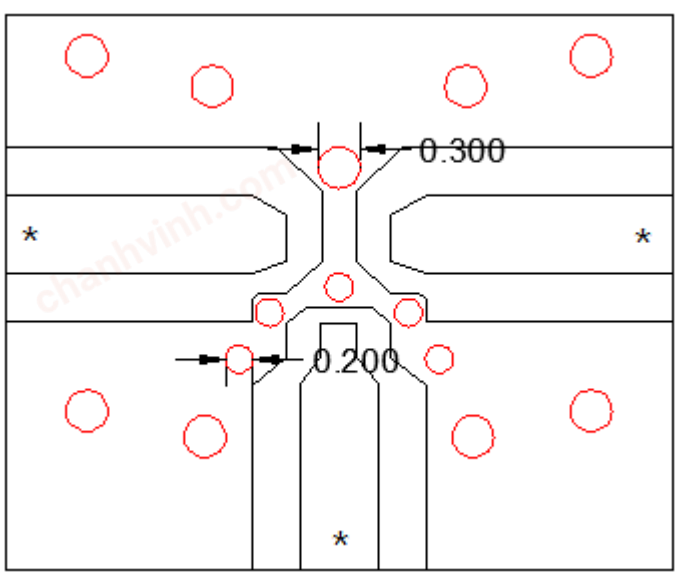
Termination

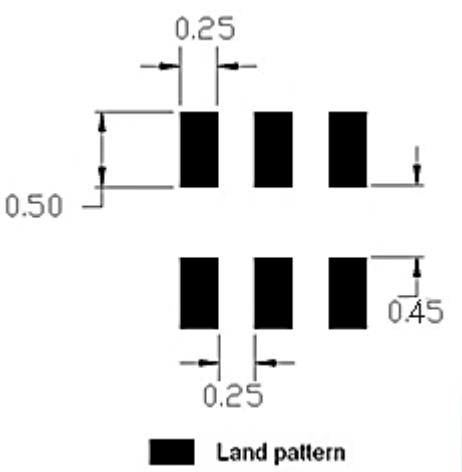
Top View



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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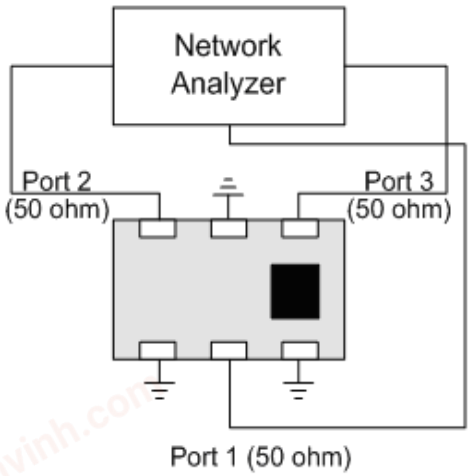
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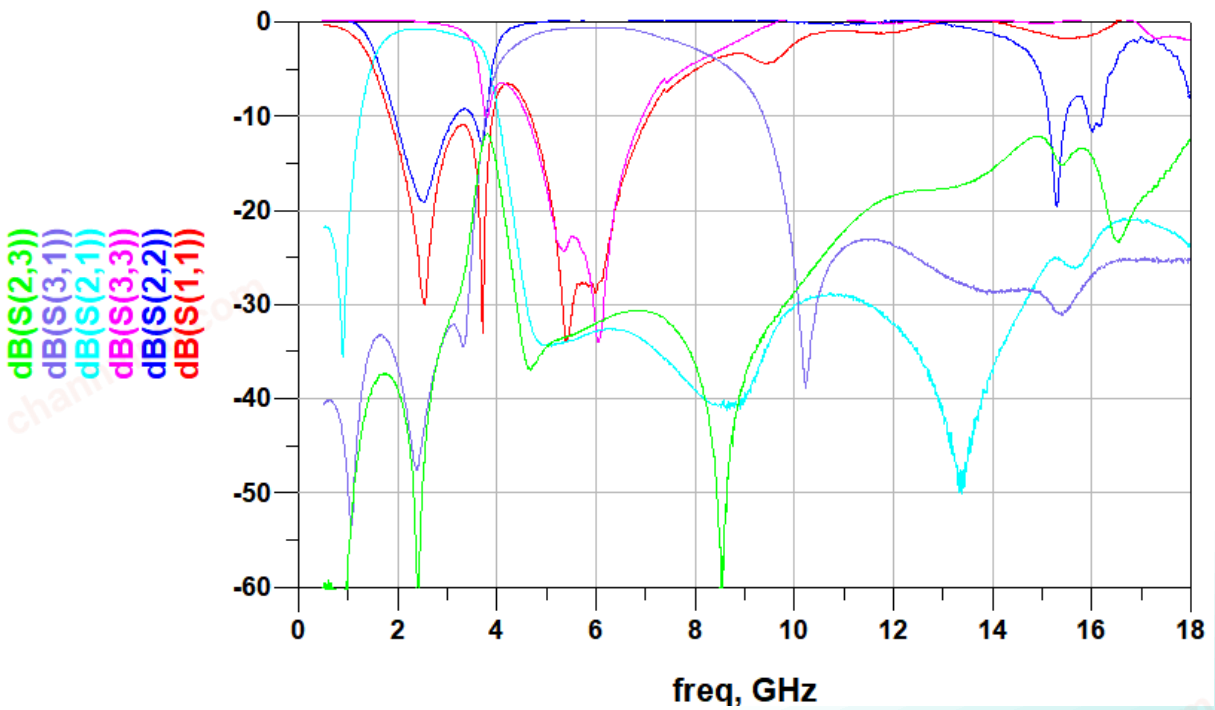
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MEASURING DIAGRAM



Test Instrument：
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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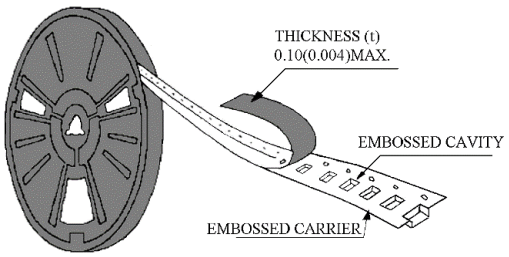
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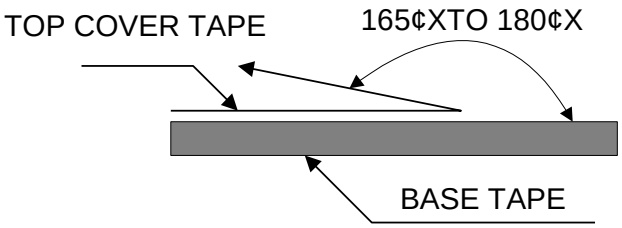
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PACKING SPECIFICATION

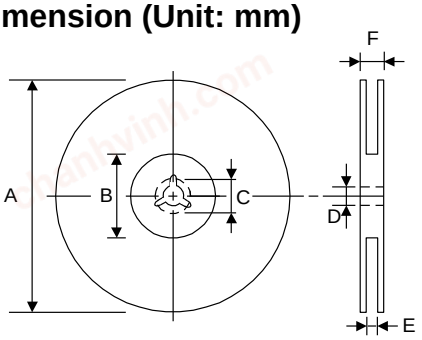
Peel-off force





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

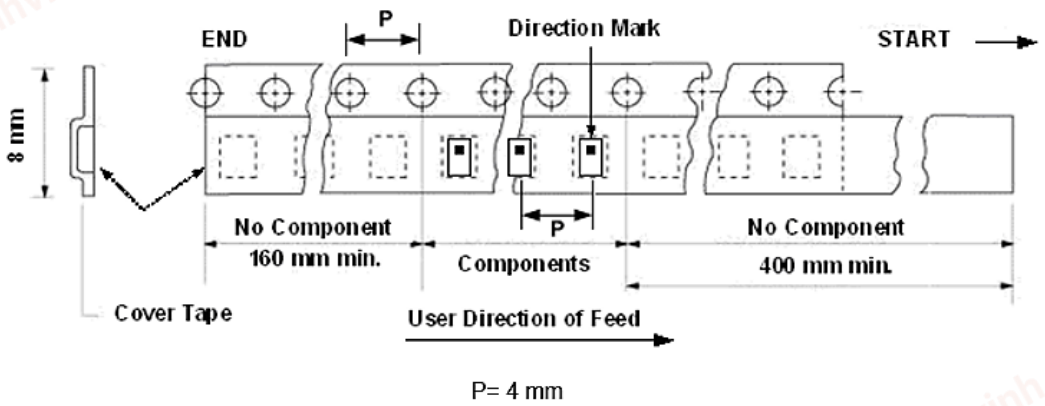
Dimension (Unit: mm)



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	Sep. 02, 2022	- New issue

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