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Pulse
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 Diplexer

PART NUMBER: DPX1608LKF3R2460A

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- WLAN

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	2400~2500	-	0.74	0.85
Insertion Loss (dB) at -40~85°C	2400~2500	-	-	1.00
Return loss (dB)	2400~2500	13	20.7	-
Attenuation (dB)	30~1000	12	15.1	-
	4800~5000	35	40.6	-
	5000~7125	30	36.9	-
	7200~7500	35	46.4	-
	7500~12000	18	20.3	-

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ELECTRICAL SPECIFICATIONS

High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	4900~5150	-	0.95	1.20
	5150~6300	-	0.78	1.00
Insertion loss (dB) at -40~85°C	4900~5150	-	-	1.35
	5150~6300	-	-	1.15
Return loss (dB)	4900~6300	11	16.5	-
Attenuation (dB)	70~1000	40	52.7	-
	1000~2400	40	48.0	-
	2400~2500	35	48.0	-
	9800~10300	30	36.3	-
	10300~12700	30	36.3	-
	14700~18900	12	16.3	-

Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return loss (dB)	2400~2500	13	17.8	-
	4900~6300	11	17.2	-

Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
HB to LB (dB)	2400~2500	35	44.8	-
	4800~5150	30	38.6	-
	5150~5950	30	36.5	-
	5950~6300	30	37.5	-
	11900~14250	15	19.2	-
	15000~18000	15	18.7	-

*Impedance for port1 = Match to client's chipset

Operating Temperature Range：-40~85°C

Power Capacity：3W max.

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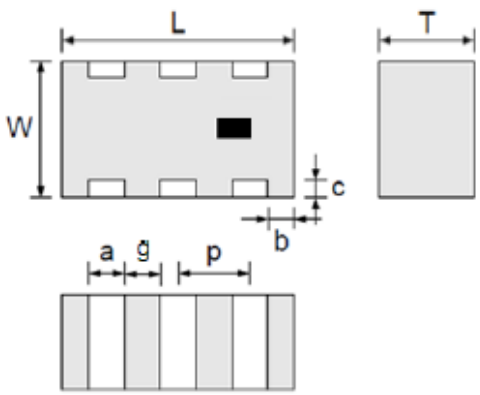
MECHANICAL DIMENSION

Outline





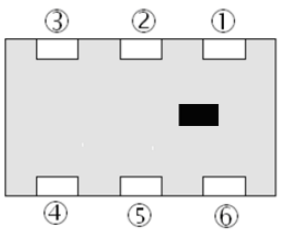
Dimension

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.

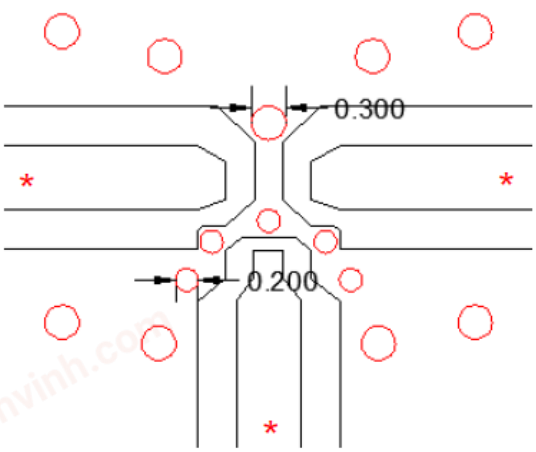
Termination

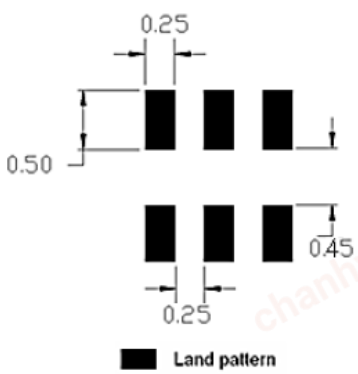
Top View



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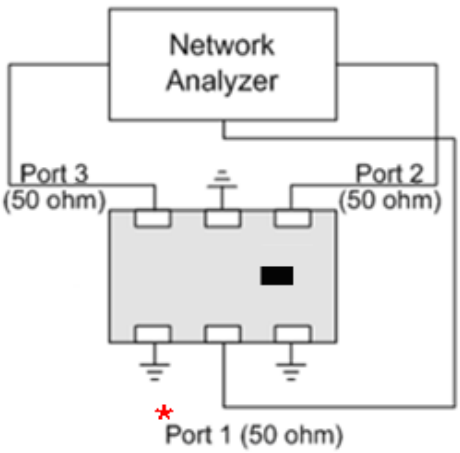
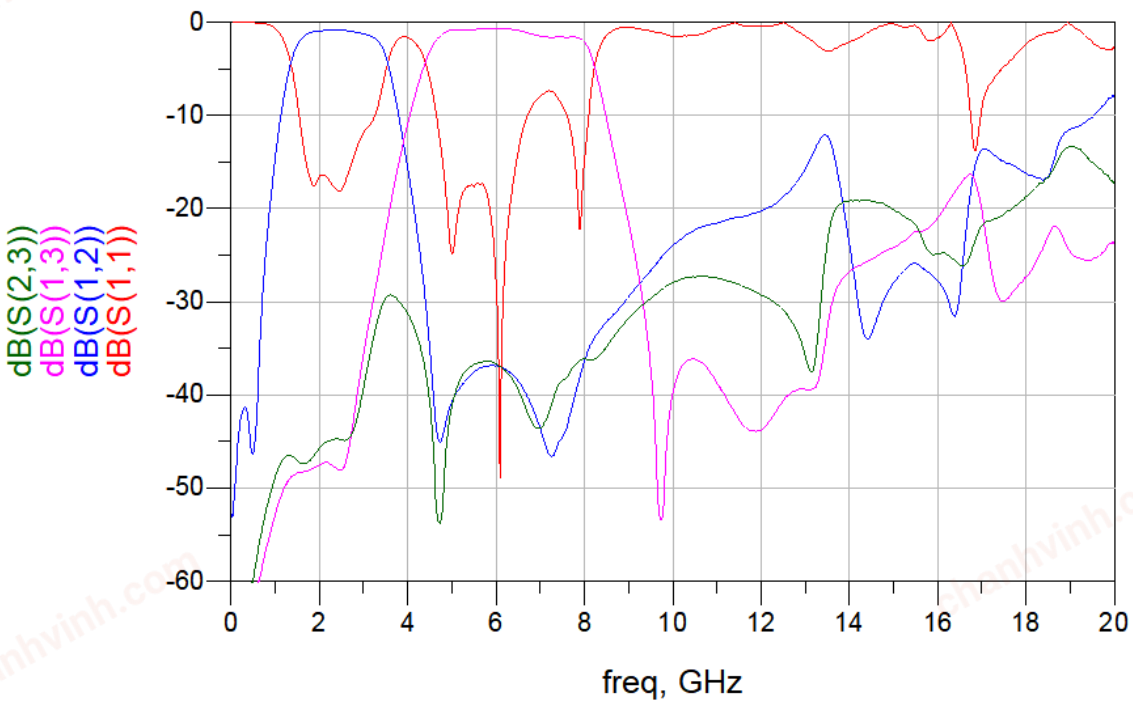
MEASURING DIAGRAM



Test Instrument：
Agilent E5071C Network Analyzer or equivalent.
*Impedance for port1 = Match to client's chipset

ELECTRICAL PERFORMANCES



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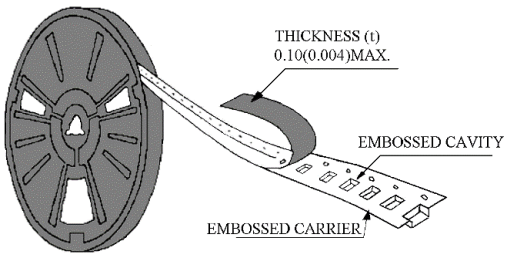
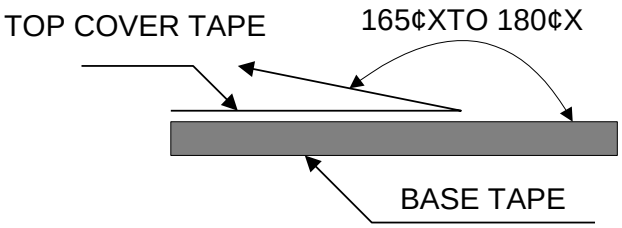
PACKING SPECIFICATION

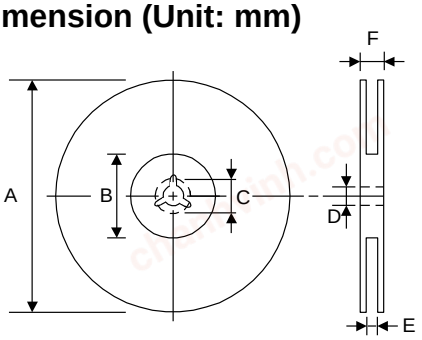
Peel-off force





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

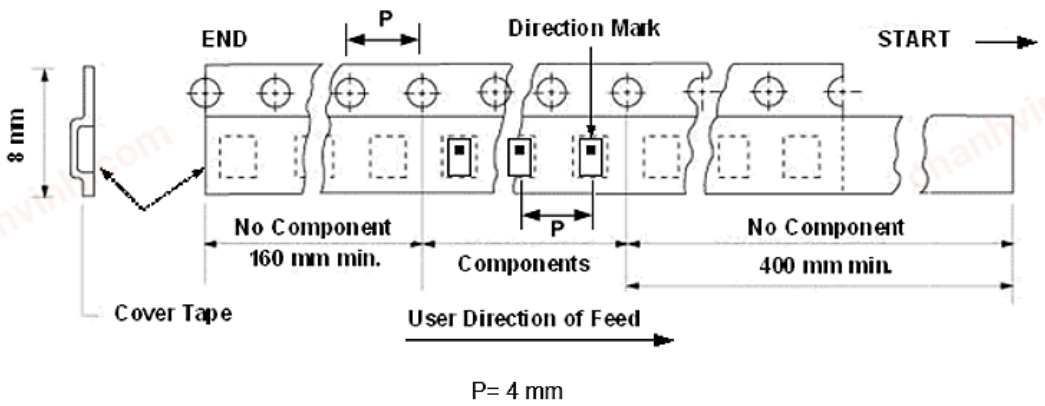
Dimension (Unit: mm)



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	Apr. 13, 2022	- New issue

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