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Pulse
A YAGEO Company

TECHNICAL DATA SHEET

Description: 2012 Diplexer

PART NUMBER: DPX2012LKHHR1931L

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- LTE

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	1710~1980	-	0.80	1.00
	2110~2170	-	1.00	1.30
	2170~2180	-	1.10	1.40
	2180~2200	-	1.35	1.85
Return Loss (dB)	1710~2200	10	13.0	-
Attenuation (dB)	2496~2500	10	14.5	-
	2500~2690	11	15.0	-

High-Band

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2496~2500	-	1.05	1.35
	2500~2690	-	1.00	1.30
	3300~3550	-	0.40	0.80
	3550~3700	-	0.30	0.80
	3700~3800	-	0.30	0.80
Return Loss (dB)	2496~3800	10	18.0	-
Attenuation (dB)	1710~1980	11	13.5	-
	2110~2170	11	16.5	-
	2170~2180	10	15.5	-
	2180~2200	8	13.5	-

Common

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Return Loss (dB)	1710~2200	10	13.0	-
	2496~3800	10	18.0	-

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

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RoHS COMPLIANT

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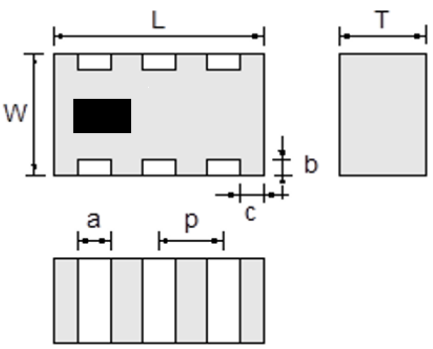
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MECHANICAL DIMENSION

Outline



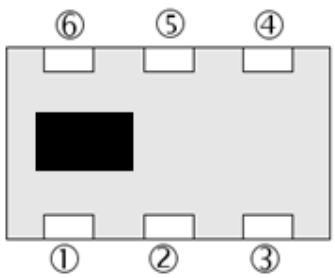
Dimension

L	W	T	a
2.00±0.15	1.25±0.15	0.90±0.10	0.30±0.15
b	c	p	
0.20±0.15	0.20±0.15	0.65±0.15	

NOTE：Dimensions in mm.

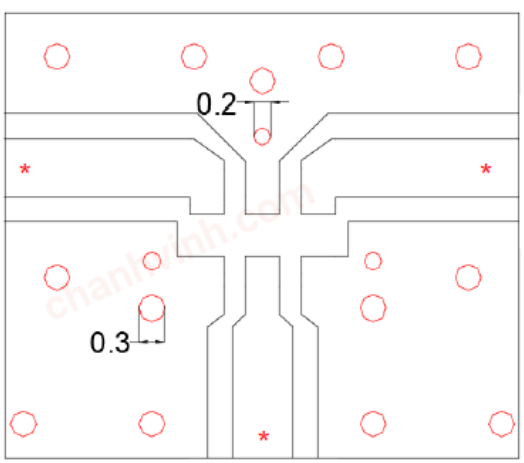
Termination

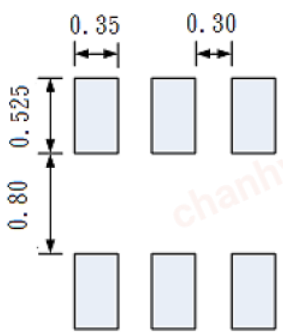
Top View



Terminal name	Function
1	GND
2	Common
3	GND
4	Low band
5	GND
6	High band

Recommended Land Pattern





Unit：mm

Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

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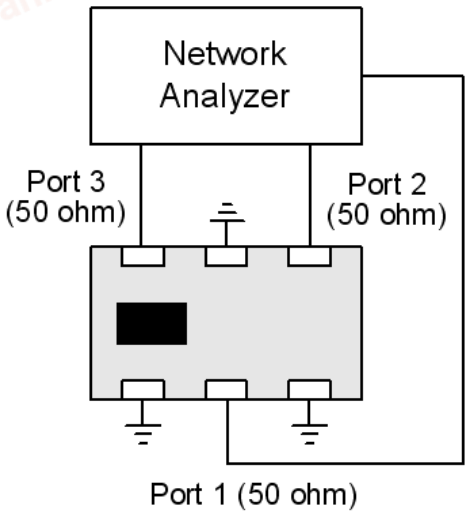
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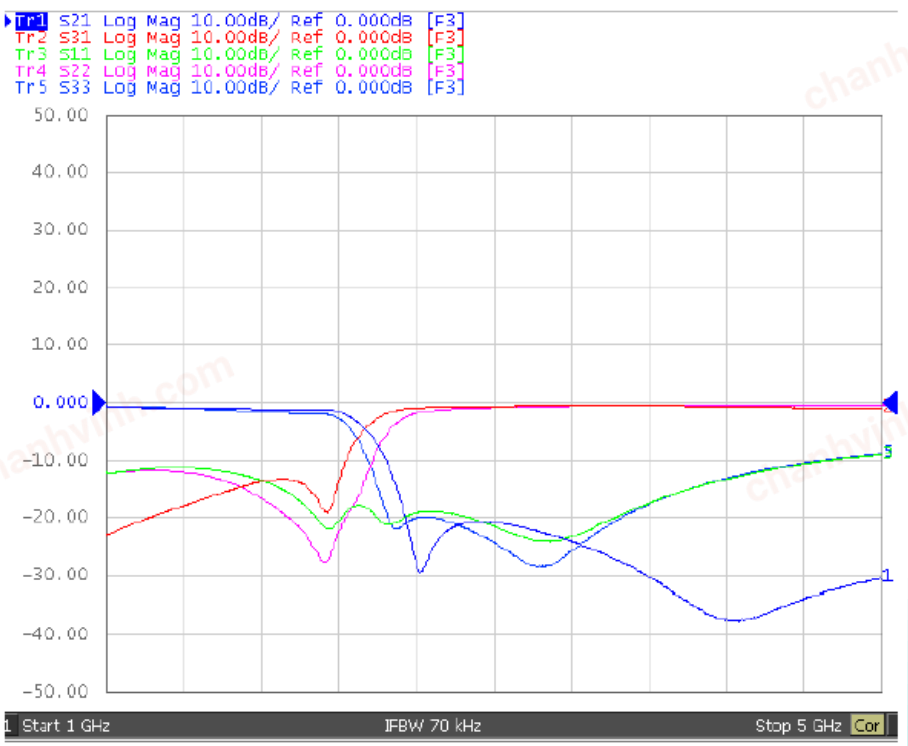
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MEASURING DIAGRAM



Test Instrument：
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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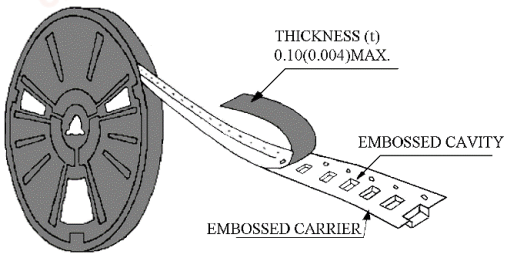
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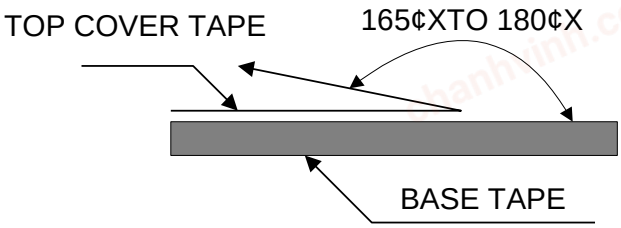
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PACKING SPECIFICATION

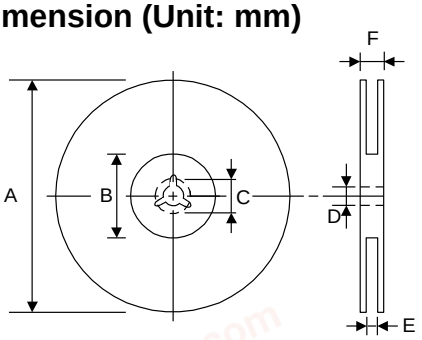
Peel-off force





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

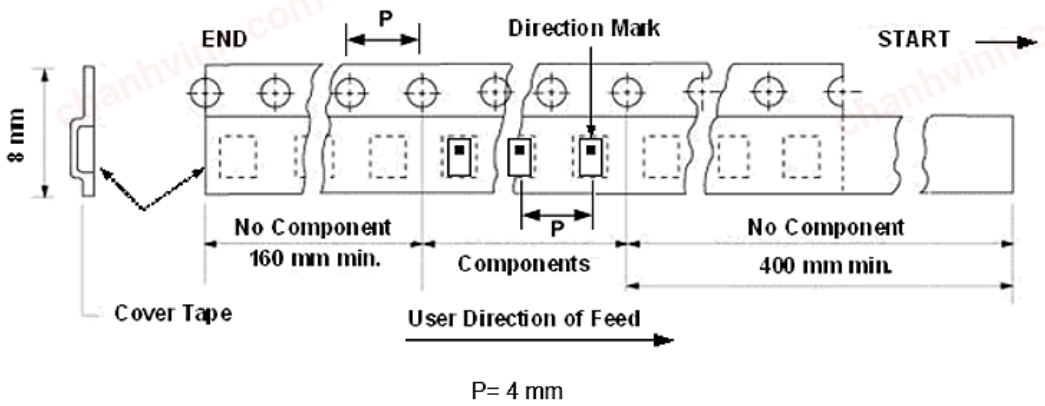
Dimension (Unit: mm)



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	Feb. 23, 2022	- New issue

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