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Pulse A YAGEO Company

TECHNICAL DATA SHEET

Description: 2012 Diplexer

PART NUMBER: DPX2012LRGYR2558A

Features:

- Compact size
- RoHS compliant

Applications:

- WLAN



Net weigh/pcs (g): 0.00919

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	2400~2500	-	-	2.4
Return loss (dB)	2400~2500	12	-	-
Attenuation (dB)	824~915	30	-	-
	1545~1605	25	-	-
	1710~1910	25	-	-
	2170	12	-	-
	4800~5000	30	-	-
	7200~7500	26	-	-

High-Band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	5150~5850	-	-	1.2
Return loss (dB)	5150~5850	12	-	-
Attenuation (dB)	2400~2500	25	-	-
	10300~11700	20	-	-

Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return loss (dB)	2400~2500	12	-	-
	5150~5850	12	-	-

Operating Temperature Range：-40~85°C

Power Capacity：3W max.

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

RoHS COMPLIANT

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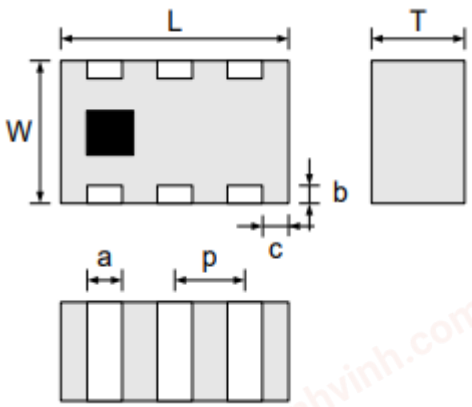
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Description: 2012 Diplexer

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MECHANICAL DIMENSION

Outline



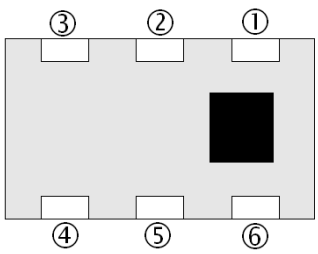
Dimension

L	W	T	a
2.00±0.15	1.25±0.15	0.70 max.	0.30±0.20
b	c	p	
0.30±0.20	0.20±0.20	0.65±0.20	

NOTE：Dimensions in mm.

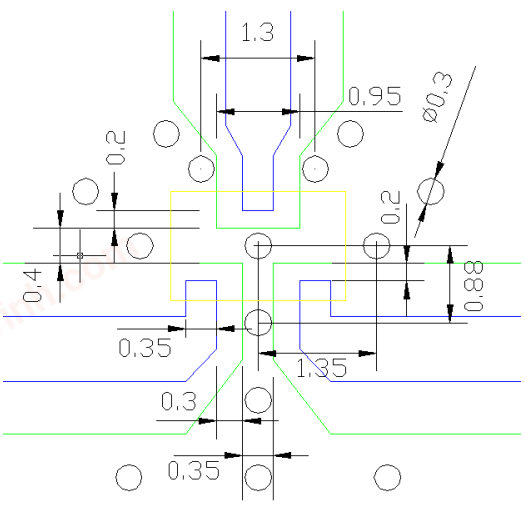
Termination

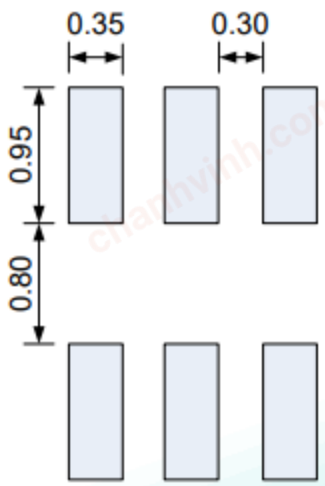
Top View



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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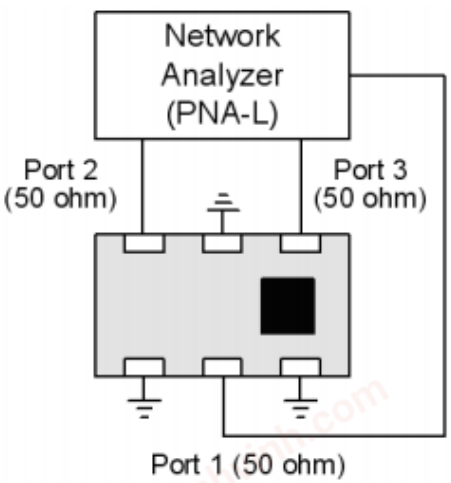
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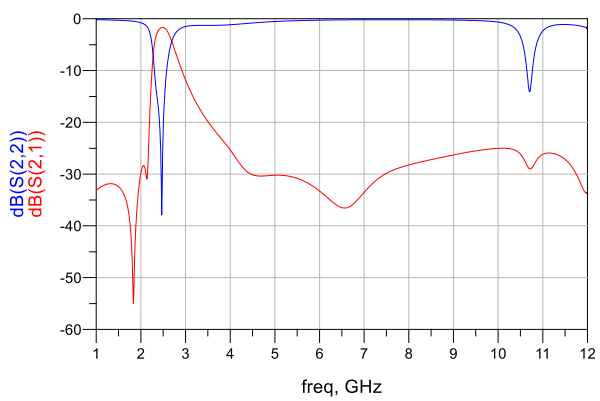
PART NUMBER: DPX2012LRGYR2558A

MEASURING DIAGRAM

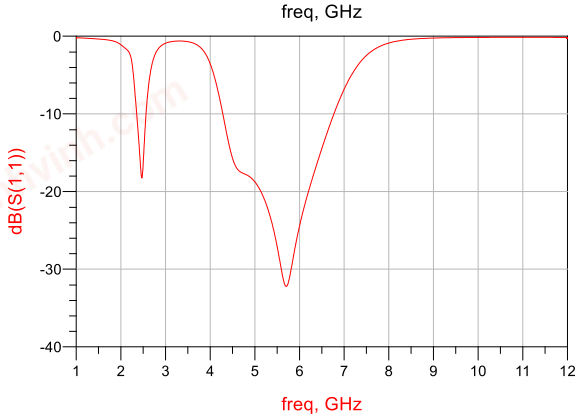


Test Instrument：
Agilent N5230A Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES







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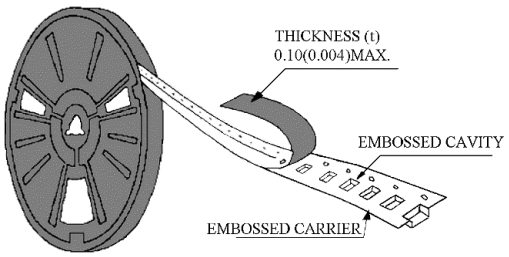
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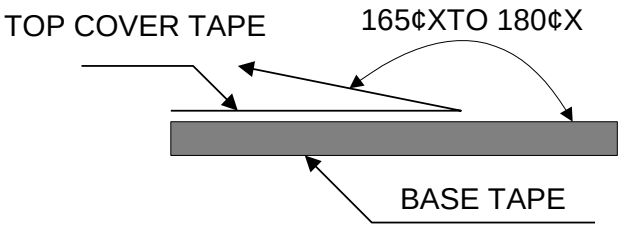
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PACKING SPECIFICATION

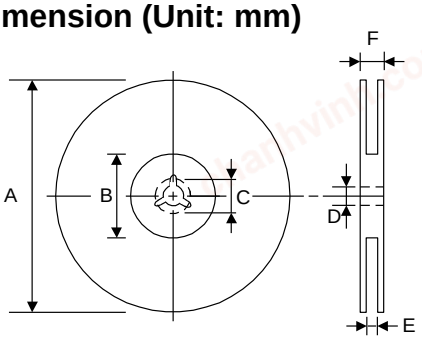
Peel-off force





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

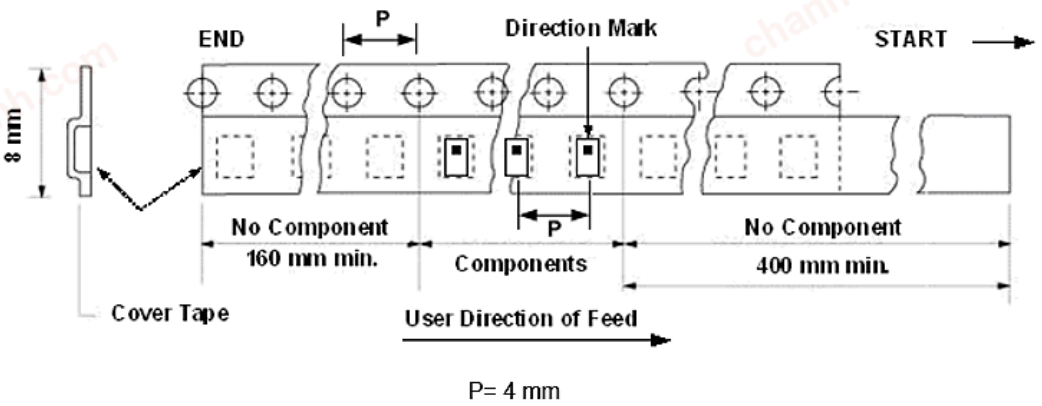
Dimension (Unit: mm)



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
Preliminary	Sep.19, 2023	- New issue
Version 1	Oct. 15, 2024	- Update to version.
Version 2	Nov. 05, 2024	- Update to version.

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