

**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.

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For more information:

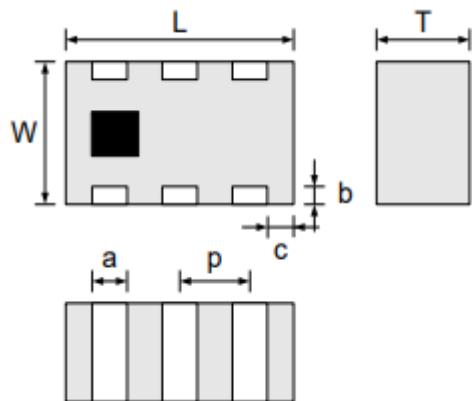


## Description: 2012 Diplexer

PART NUMBER: DPX2012LRGYR2558A

## MECHANICAL DIMENSION

## Outline



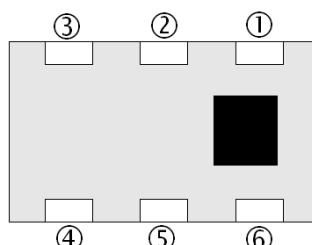
## Dimension

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



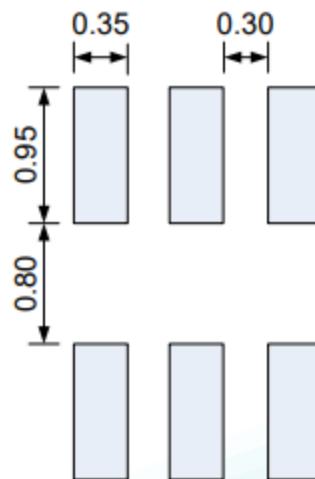
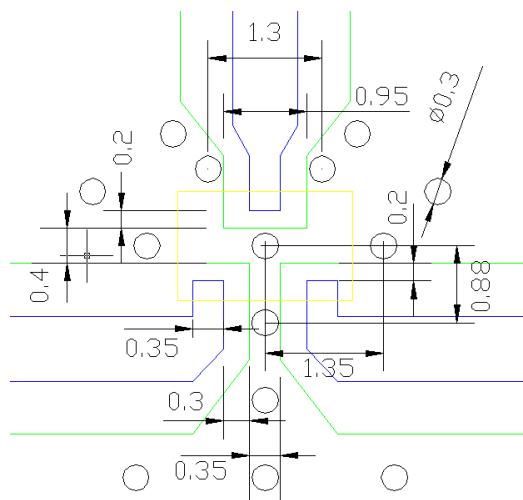
## Terminal name

1  
2  
3  
4  
5  
6

## Function

High band  
GND  
Low band  
GND  
Common  
GND

## Reference design of EVB



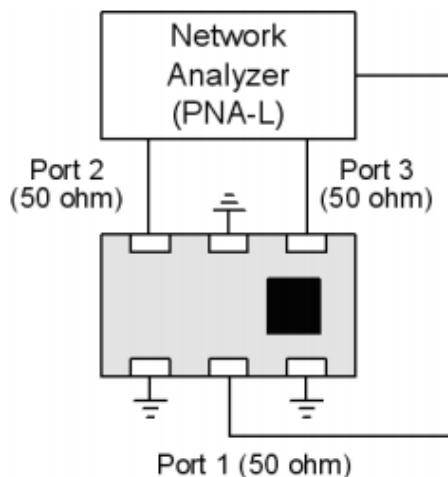
Unit : mm

- Line width should be designed to match  $50\Omega$  characteristic impedance, depending on PCB material and thickness.

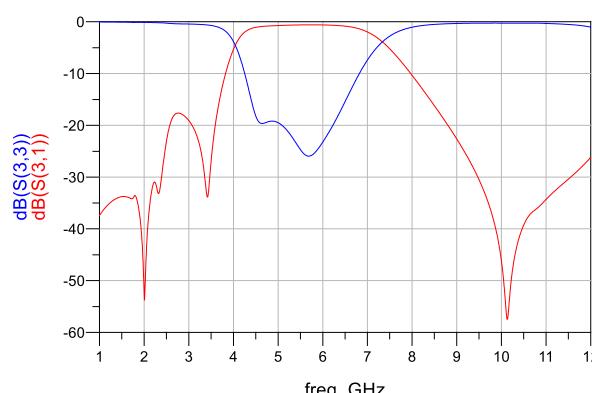
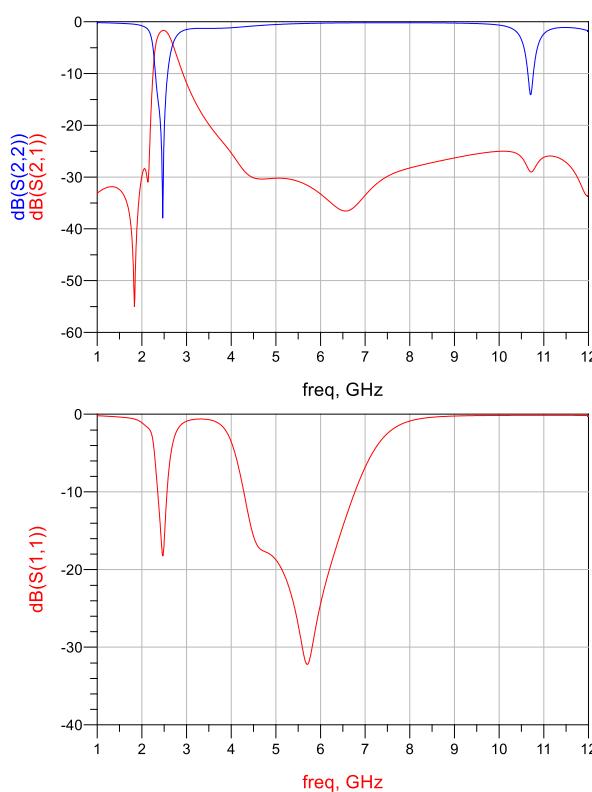
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**Description: 2012 Diplexer**
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**MEASURING DIAGRAM**


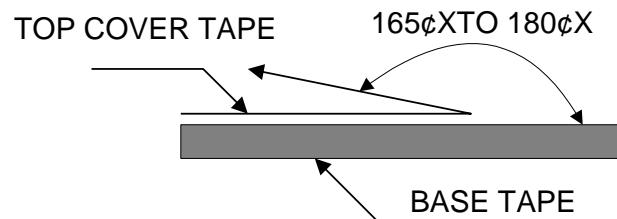
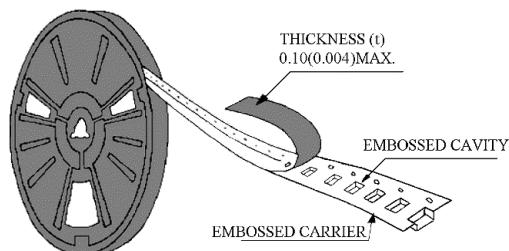
Test Instrument :  
Agilent N5230A Network Analyzer or equivalent.

**ELECTRICAL PERFORMANCES**


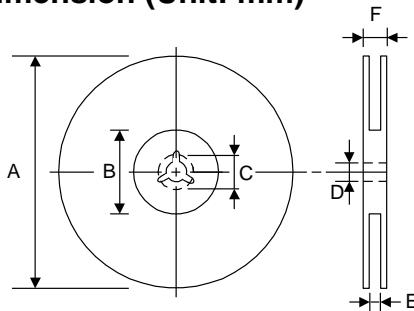
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**Description: 2012 Diplexer**
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**PACKING SPECIFICATION**
**Peel-off force**


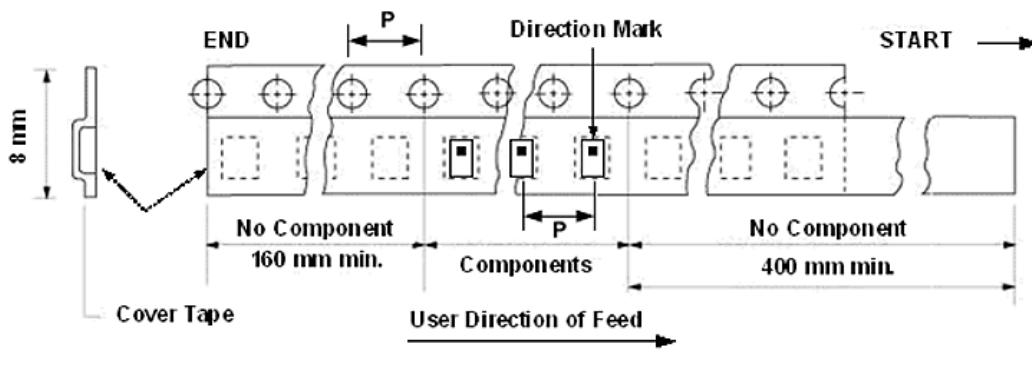
The force for peeling of cover tape is 10 grams in the arrow direction.

**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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**Description:** 2012 Diplexer**PART NUMBER: DPX2012LRGYR2558A****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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[MAPDCC0005](#) [3A325](#) [BD0810N50100AHF](#) [DC0710J5005AHF](#) [DC2327J5005AHF](#) [X3C19F1-20S](#) [XC3500P-20S](#) [CDBLB455KCAX39-B0](#)  
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