

Description: 2012 Triplexer
PART NUMBER: TPX2012LKTFR1525L
Features:

- Compact size
- Low loss
- High Soldering Heat Resistance

Applications:

- WiFi
- GPS

ELECTRICAL SPECIFICATIONS
Low band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	1559~1606	-	0.56	0.7
Return loss (dB)	1559~1606	10	20.4	-
Attenuation (dB)	2400~2500	18	29.09	-
	4900~5950	20	22.59	-

Middle band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	2400~2500	-	0.82	0.9
Return loss (dB)	2400~2500	10	19.1	-
Attenuation (dB)	1560~1606	25	31.3	-
	4800~5000	30	35.3	-
	7200~7500	20	29.3	-

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

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ELECTRICAL SPECIFICATIONS
High band

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	4900~5100	-	0.88	1.2
	5150~5950	-	0.8	0.9
Return loss (dB)	4900~5950	10	18.4	-
Attenuation (dB)	2400~2500	32	38.7	-
	6900~7200	3	4.4	-
	7300~7800	7	7.8	-
	10300~11700	20	24	-
	15300~16200	15	17.5	-

Common

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return loss (dB)	1559~1606	10	20.4	-
	2400~2500	10	19.1	-
	4900~5950	10	18.4	-

Isolation

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Low to Middle band (dB)	1559~1606	25	28	-
	2400~2500	18	28.2	-
Middle to High band (dB)	2400~2500	30	36.3	-
	5150~5950	25	32.4	-
Low to High band (dB)	1559~1606	30	42	-
	5150~5950	15	24.7	-

Operating Temperature Range : -40~85°C

Power Capacity : 3W max.

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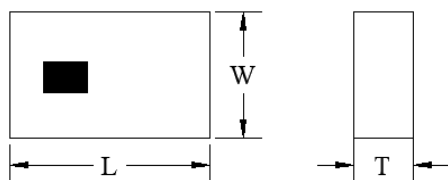
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MECHANICAL DIMENSION

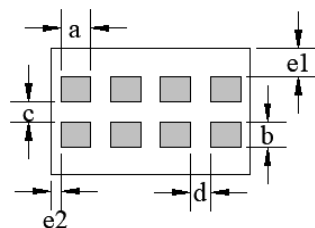
Outline



Dimension

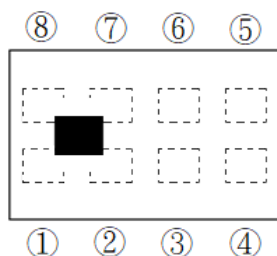
L	W	T	a
2.00±0.15	1.25±0.15	0.75 max.	0.30±0.10
b	c	d	e1
0.25±0.10	0.20±0.10	0.20±0.10	0.275±0.10
e2			
0.10±0.10			

NOTE : Dimensions in mm.



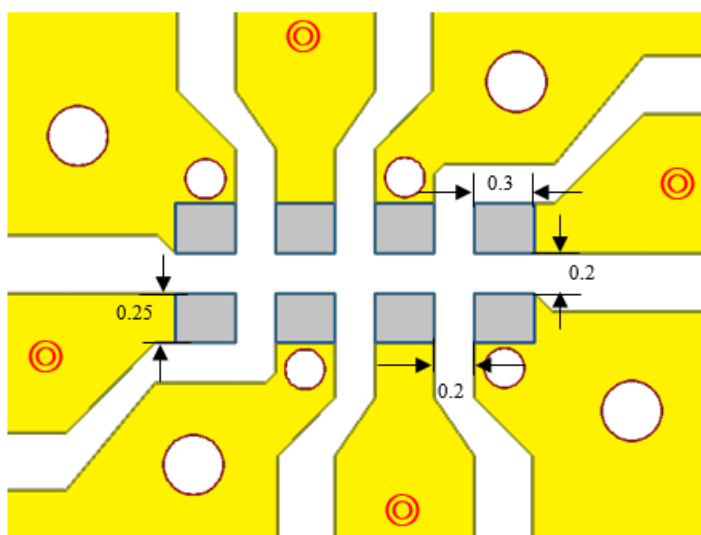
Termination

Top View



Terminal name	Function
1	Low band
2	GND
3	Common
4	GND
5	Middle Band
6	GND
7	High band
8	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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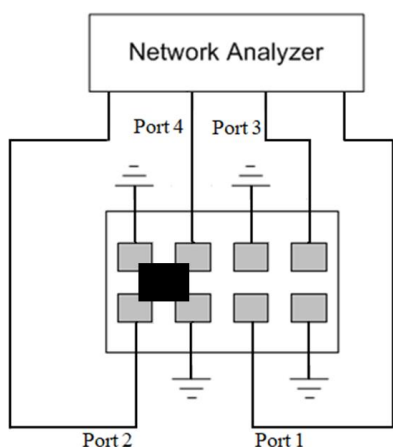
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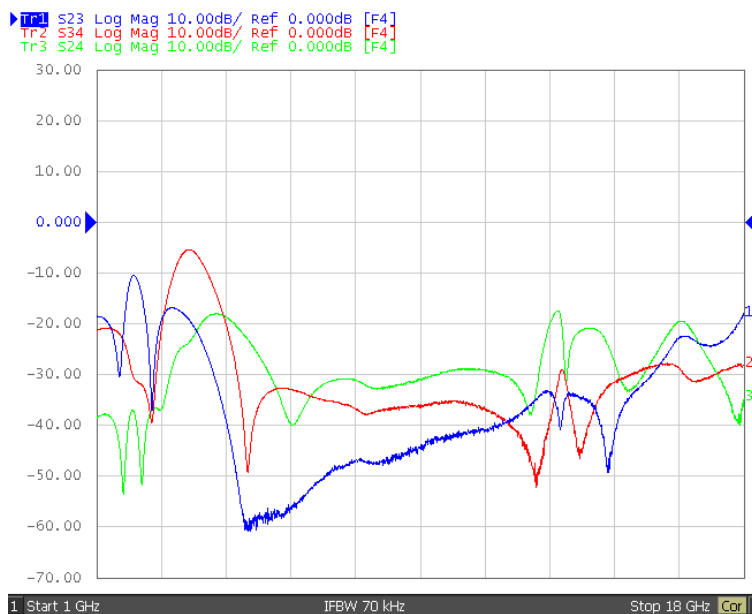
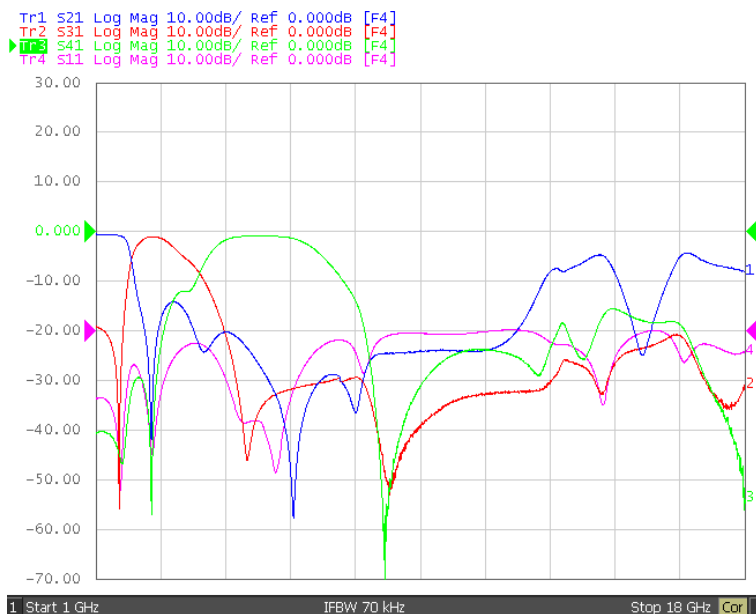
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MEASURING DIAGRAM



Test Instrument :
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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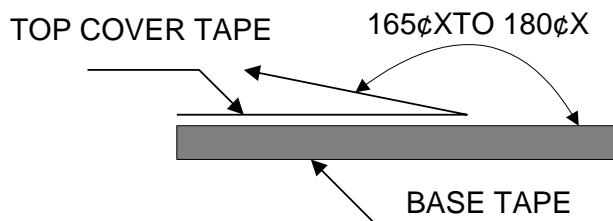
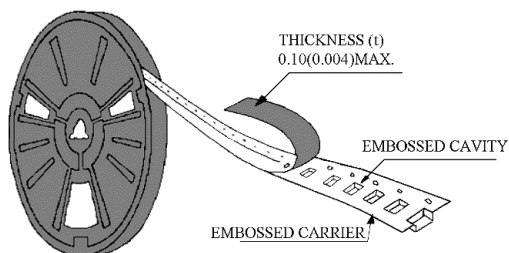
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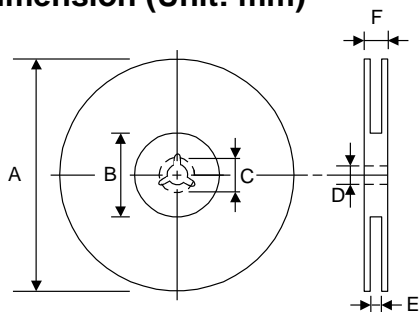
PACKING SPECIFICATION

Peel-off force



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

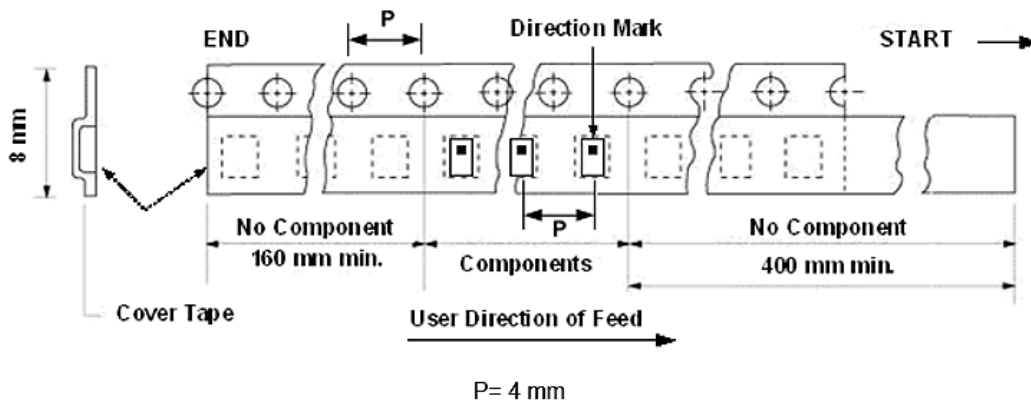
Dimension (Unit: mm)



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 Triplexer**PART NUMBER:** TPX2012LKTFR1525L**REVISION HISTORY**

Revision	Date	Description
Version 1	Nov. 22, 2022	- New issue.