Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 2520 LB & JB-MB Diplexer

PART NUMBER: DPX2520LWUDRWP31L

Features:

- Compact size : 2.50x2.00x0.8mm
- Low loss : Low insertion loss, high attenuation.

Applications:

- GSM/WCDMA/LTE mobile communication systems

ELECTRICAL SPECIFICATIONS

DESCRIPTION	VALUE	
	Low Band	High Band
Pass Band	699~960MHz 960~1427MHz 1427~1710MHz 1710~1990MHz 1990~2110MHz 2110~2170MHz	2300~2350MHz 2350~2500MHz 2500~2690MHz 3300~3600MHz
Insertion loss	0.39dB (typ.) /0.7dB (Min) 0.52dB (typ.) /0.85dB (Min) 0.52dB (typ.) /0.95dB (Min) 0.67dB (typ.) /1.15dB (Min) 1.28dB (typ.) /1.65dB (Min) 2.07dB (typ.) /2.7dB (Min)	1.8dB (typ.) /2.85dB (Min) 1.09dB (typ.) /1.65dB (Min) 0.58dB (typ.) /0.85dB (Min) 0.40dB (typ.) /0.85dB (Min)
Return Loss(Min)	15.7dB (typ.) /10dB (Min)	12.8dB (typ.) /10dB (Min)
Attenuation (Min)	10.1dB(typ.)/5dB@2300~2350MHz 15.5dB(typ.)/10dB@2350~2500MHz 22.4dB(typ.)/15dB@2500~2690MHz	14.8dB(typ.)/12dB@699~960MHz 13.7dB(typ.)/12dB@960~1427MHz 13.7dB(typ.)/12dB@1427~1710MHz 14.2dB(typ.)/10dB@1710~1990MHz 17.6dB(typ.)/12dB@1990~2110MHz 10.7dB(typ.)/5dB@2110~2170MHz
Isolation (Min)	13.6dB(typ.)/12dB@699~960MHz 12.6dB(typ.)/11dB@960~1427MHz 12.6dB(typ.)/11dB@1427~1710MHz 14dB(typ.)/10dB@1710~1990MHz 16.9dB(typ.)/12dB@1990~2110MHz 11.6dB(typ.)/5dB@2110~2170MHz 11.3dB(typ.)/5dB@2300~2350MHz 14.9dB(typ.)/10dB@2350~2500MHz 23.2dB(typ.)/15dB@2500~2690MHz	
Operating Temperature	-40 ~ 85℃	

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

RoHS COMPLIANT

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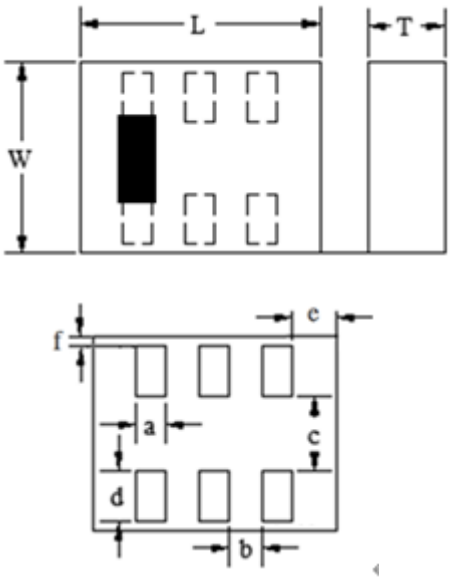
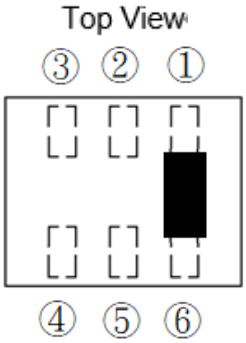
MECHANICAL DIMENSION

Outline



Termination

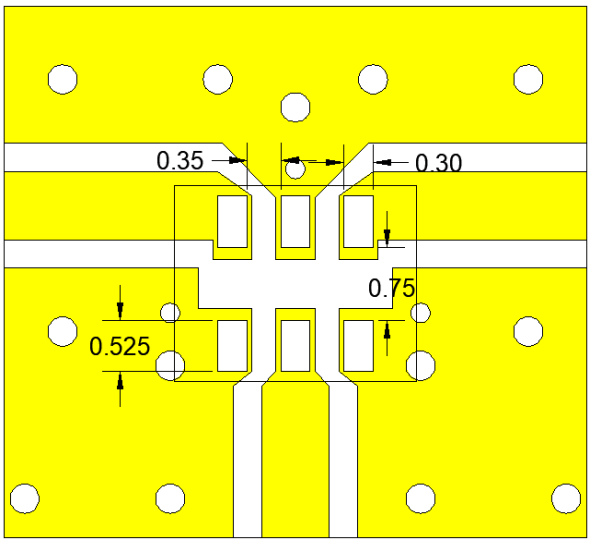
Terminal name	Function
P1	High band
P2	GND
P3	Low band
P4	GND
P5	Common
P6	GND



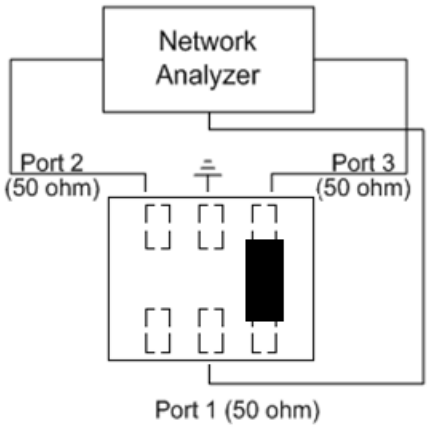
Mechanical

	Dimension
L (mm)	2.50±0.10
W (mm)	2.00±0.10
W (mm)	0.80±0.10
a (mm)	0.30±0.10
b (mm)	0.35±0.10
c (mm)	0.75±0.10
d (mm)	0.525±0.10
e (mm)	0.45±0.10
f (mm)	0.10±0.10

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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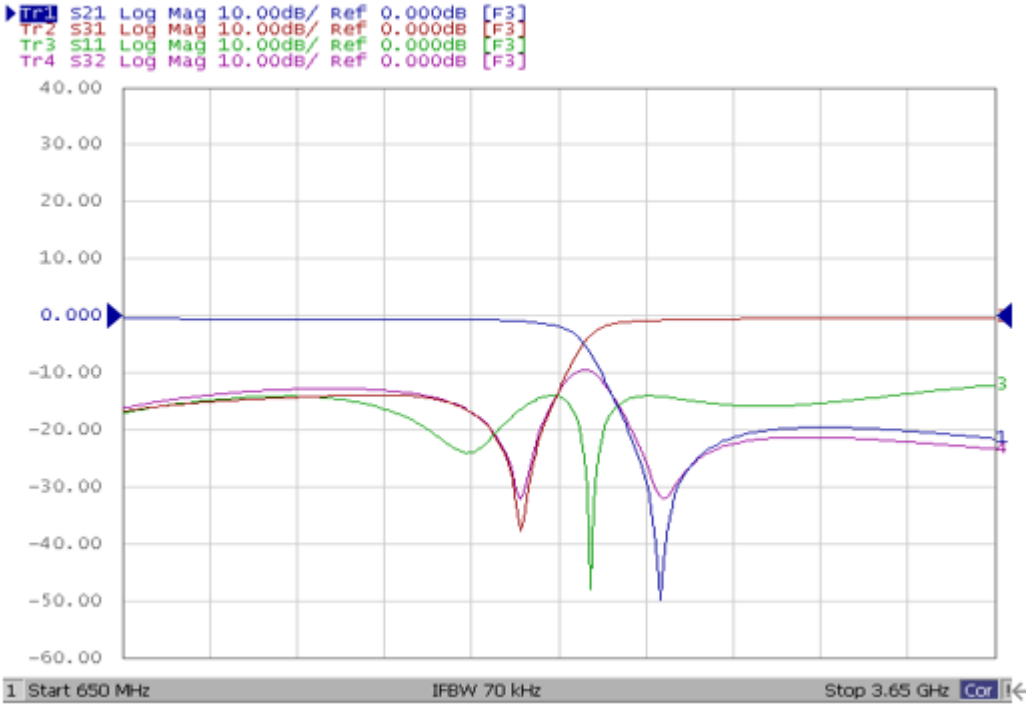
ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer

Frequency Characteristics

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REVISION HISTORY

Revision	Date	Description
Version 1	Jan. 21, 2022	- New issue

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