

Description: 2012 LTE & n77-5GHz Diplexer

PART NUMBER: DPX2012LKUCRWH46L

Features:

- Compact size : 2.00x1.20x0.6mm
- Low loss : Low insertion loss, high attenuation.

Applications:

- GSM/WCDMA/LTE mobile communication systems

ELECTRICAL SPECIFICATIONS

DESCRIPTION	VALUE	
Pass Band	Low Band	High Band
	617~960MHz 1427~1511MHz 1710~2170MHz 2300~2496MHz 2496~2690MHz	3300~3400MHz 3400~4200MHz 4400~5000MHz 5150~5925MHz
Insertion loss (Max)	0.35 / 0.45 / 0.55 / 0.75 / 0.95 dB	1.4 / 1.1 / 0.7 / 0.55 dB
Return Loss(Min)	17.5dB (typ.) /12dB (Min)	19dB (typ.) /12dB (Min)
Attenuation (Min)	20dB(typ.)/17dB@3300~3400MHz 26dB(typ.)/23dB@3400~4200MHz 26dB(typ.)/23dB@4400~5000MHz 33dB(typ.)/28dB@5150~5925MHz	36.8dB(typ.)/30dB@617~960MHz 35.5dB(typ.)/30dB@1427~1511MHz 27.3dB(typ.)/25dB@1710~2170MHz 27dB(typ.)/22dB@2170~2690MHz 27dB(typ.)/22dB@10300~11850MHz 23.5dB(typ.)/10dB@15450~17775MHz
Isolation (Min)	36dB(typ.)/30dB@617~960MHz 34.5dB(typ.)/30dB@1427~1511MHz 27.7dB(typ.)/23dB@1710~2170MHz 28dB(typ.)/23dB@2170~2690MHz 21dB(typ.)/18dB@3300~3400MHz 28.1dB(typ.)/23dB@3400~3800MHz 26.6dB(typ.)/23dB@3800~4200MHz 27.5dB(typ.)/23dB@4400~5000MHz 32.9dB(typ.)/28dB@5150~5925MHz	
Operating Temperature	-40 ~ +85°C	

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

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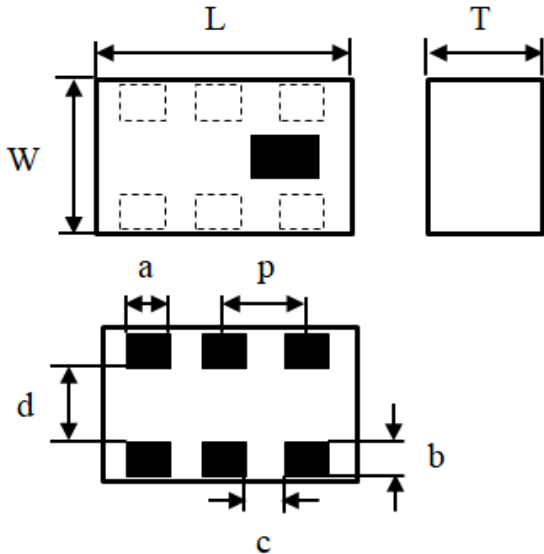


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MECHANICAL DIMENSION

Outline

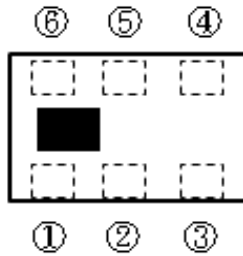


Termination

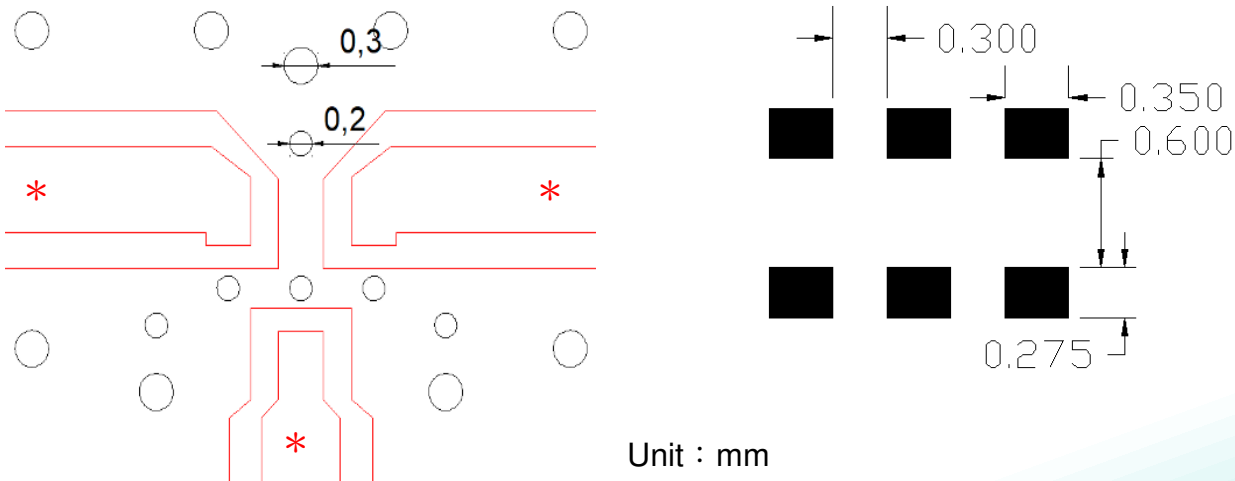
Terminal name	Function
P1	GND
P2	Common
P3	GND
P4	High band
P5	GND
P6	Low band

Mechanical

	Dimension
L (mm)	2.00±0.10
W (mm)	1.25±0.10
T (mm)	0.6 (Max.)
a (mm)	0.35±0.10
b (mm)	0.275±0.10
c (mm)	0.30±0.15
d (mm)	0.60±0.10
p (mm)	0.65±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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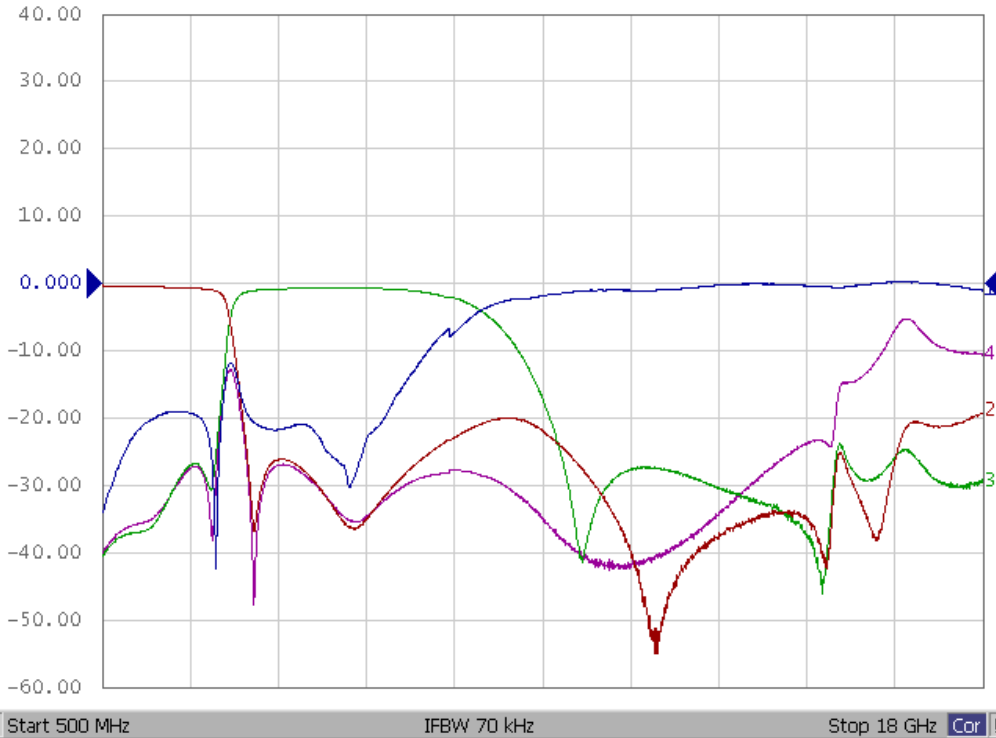
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ELECTRICAL PERFORMANCES

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F3]
 Tr2 S21 Log Mag 10.00dB/ Ref 0.000dB [F3]
 Tr3 S31 Log Mag 10.00dB/ Ref 0.000dB [F3]
 Tr4 S23 Log Mag 10.00dB/ Ref 0.000dB [F3]



- Measured on Agilent E5071C Network Analyzer
- Common port : Port 1 (Return loss : S11)
- Low band port : Port 2 (Low band Insertion loss S21, and attenuation at high band)
- High band port : Port 3 (High band Insertion loss S31, and attenuation at low band)
- Low band and high band Isolation : S23

Frequency Characteristics

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REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 10, 2021	- New issue