

**Description: 2520 LB & MB-HB Diplexer**

**PART NUMBER: DPX2520LKGJR0922L**

**Features:**

- Compact Size
- Low loss
- High Soldering Heat Resistance

**Applications:**

- GSM/WCDMA/LTE mobile communication systems

**ELECTRICAL SPECIFICATIONS**

**Low-Band**

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	617~960	-	0.45	0.60
Insertion Loss(dB) at -40~85°C	617~960	-	-	0.70
Return Loss (dB)	617~960	12	20	-
Attenuation (dB)	1427~1463	18	27	-
	1452~1496	23	30	-
	1463~1496	23	30	-
	1496~1511	23	30	-
	1554~1605	20	25	-
	1695~1710	20	24	-
	1710~1850	20	24	-
	1760~1850	20	24	-
	1850~2108	20	24	-
	2109~2200	23	27	-
	2300~2400	25	30	-
	2401~2496	25	31	-
	2496~2586	25	33	-
	2620~2745	28	35	-
	3300~4200	30	39	-
	4400~5000	30	38	-
5150~5925	20	25	-	
5925~12750	-	5	-	

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)	1710~1995	-	0.45	0.60
	2010~2690	-	0.55	0.70
Insertion Loss (dB) at -40~85°C	1710~1995	-	-	0.70
	2010~2690	-	-	0.80
Return Loss (dB)	1710~1995	12	20	-
	2010~2690	12	20	-
Attenuation (dB)	617~915	23	26	-
	915~960	24	27	-
	3300~3400	-	10	-
	3400~3600	15	18	-
	3600~3800	15	18	-
	3800~5130	15	18	-
	5130~5925	28	35	-
5925~12750	-	7.5	-	

**Common**

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Return Loss (dB)	617~960	12	20	-
	1710~1995	12	20	-
	2010~2690	12	20	-

**Isolation**

Item	Frequency Range(MHz)	Min.	Typ.	Max.
LB to HB (dB)	617~960	23	26	-
	1710~2690	20	24	-

Operating Temperature Range : -40~85°C

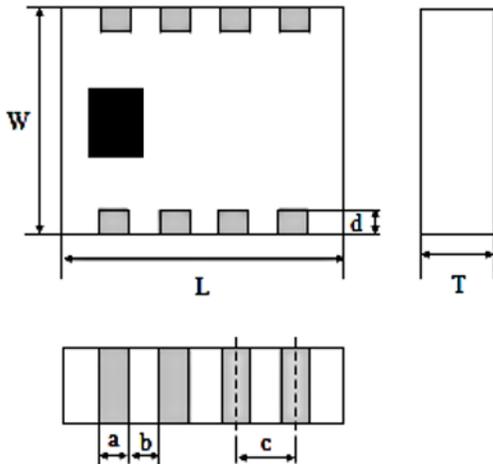
Power Capacity : 3W max.

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MECHANICAL DIMENSION

Outline

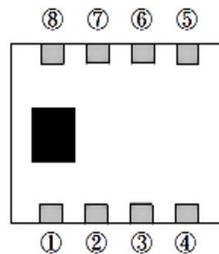


Termination

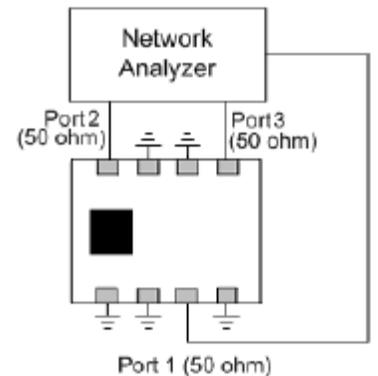
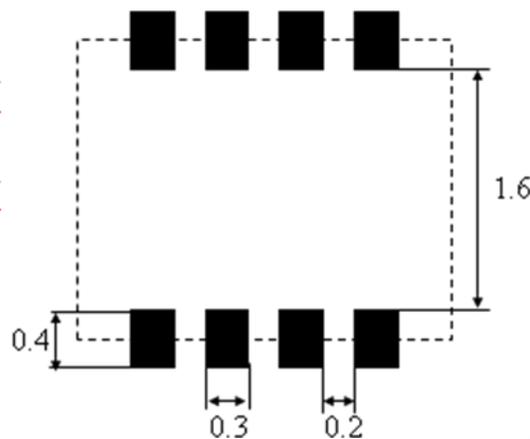
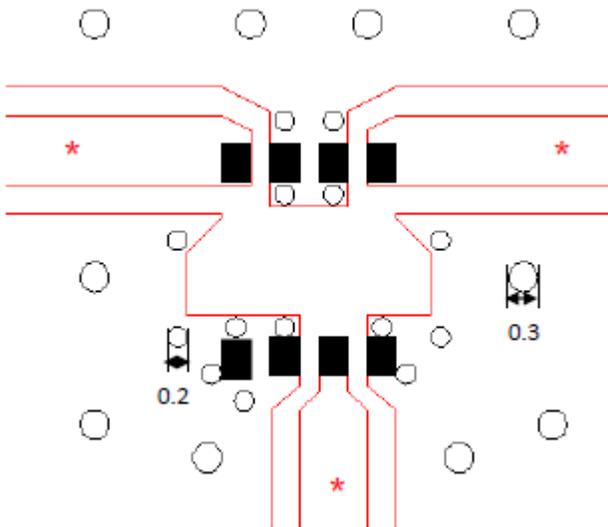
Terminal name	Function
P1	GND
P2	GND
P3	Common
P4	GND
P5	High band
P6	GND
P7	GND
P8	Low band

Mechanical

	Dimension
L (mm)	2.50±0.15
W (mm)	2.00±0.15
T (mm)	0.65 (Max)
a (mm)	0.25±0.15
b (mm)	0.25±0.15
c (mm)	0.50±0.15
d (mm)	0.20±0.15



Recommended Land Pattern



Test Instrument :  
Agilent E5071C Network Analyzer or equivalent.

Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

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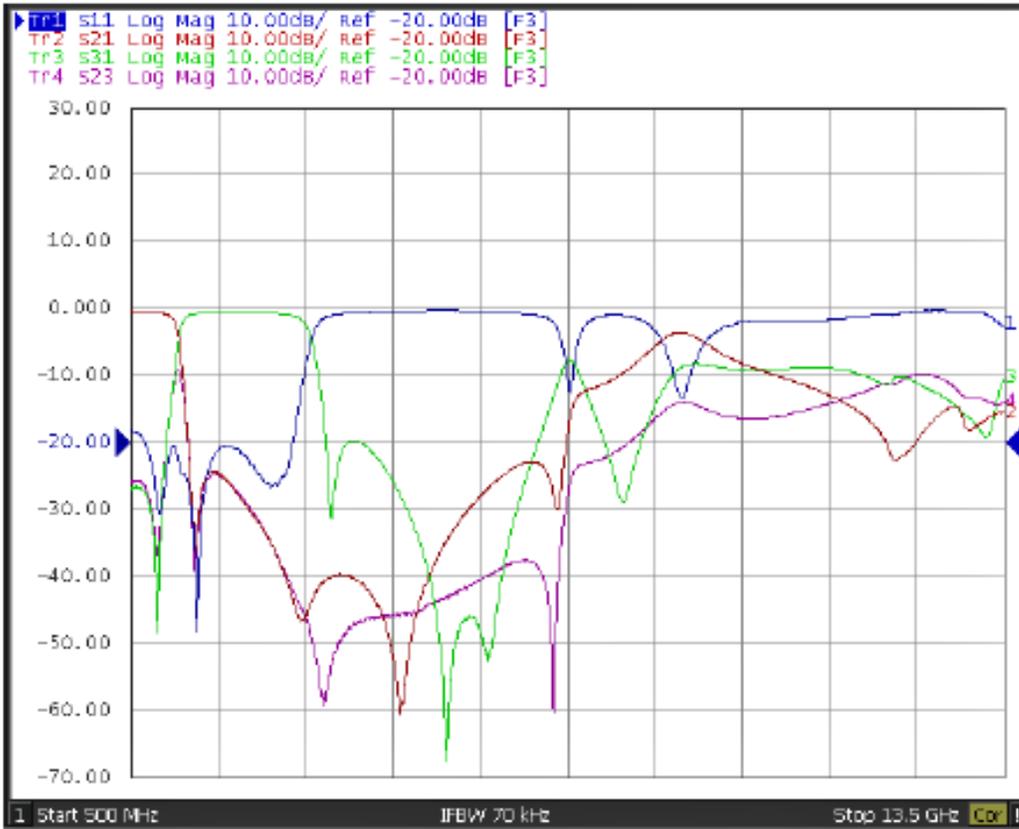
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**ELECTRICAL PERFORMANCES**



- Measured on Agilent E5071C Network Analyzer

Frequency Characteristics

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### REVISION HISTORY

Revision	Date	Description
Version 1	Feb. 23, 2022	- New issue