

Description: 2520 Quadplexer

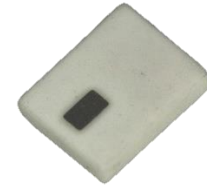
PART NUMBER: LQD-2520-DHNKA-A1

**Features:**

- Compact Size
- RoHS compliant

**Applications:**

- For wireless application



Net weigh/pcs (g): 0.01447

**ELECTRICAL SPECIFICATIONS**

**LB**

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	617~960	-	0.94	1.20
Return loss (dB)	617~960	10	16.1	-
Attenuation (dB)	1450~2690	15	21.5	-
	3400~3800	30	46.1	-
	5150~5925	30	41.1	-

**MHB**

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	1450~2690	-	1.19	1.60
Return loss (dB)	1450~2690	10	11.9	-
Attenuation (dB)	617~960	15	20.4	-
	3400~3800	15	24.0	-
	5150~5925	25	31.0	-

**UHB**

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	3400~3800	-	0.93	1.50
Return loss (dB)	3400~3800	10	15.8	-
Attenuation (dB)	617~960	15	21.4	-
	1450~2690	10	15.7	-
	5150~5925	15	18.0	-

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**ELECTRICAL SPECIFICATIONS**

**LAA**

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	5150~5925	-	0.69	1.10
Return loss (dB)	5150~5925	10	15.2	-
Attenuation (dB)	617~960	30	42.3	-
	1450~2690	25	31.0	-
	3400~3800	15	19.9	-

**Common**

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return loss (dB)	617~960	10	14.8	-
	1450~2690	10	13.4	-
	3400~3800	10	13.2	-
	5150~5925	10	13.8	-

**Isolation**

Item	Frequency Range (MHz)	Min.	Typ.	Max.
LB to MHB (dB)	617~960	15	20.1	-
	1450~2690	15	22.5	-
LB to UHB (dB)	617~960	15	22.4	-
	3400~3800	30	48.1	-
LB to LAA (dB)	617~960	30	44.6	-
	5150~5925	30	40.0	-
MHB to UHB (dB)	1450~2690	10	16.9	-
	3400~3800	15	22.1	-
MHB to LAA (dB)	1450~2690	25	32.6	-
	5150~5925	22	28.2	-
UHB to LAA (dB)	3400~3800	13	18.4	-
	5150~5925	13	17.1	-

Operating Temperature Range : -40~85°C

Power Capacity : 3W max.

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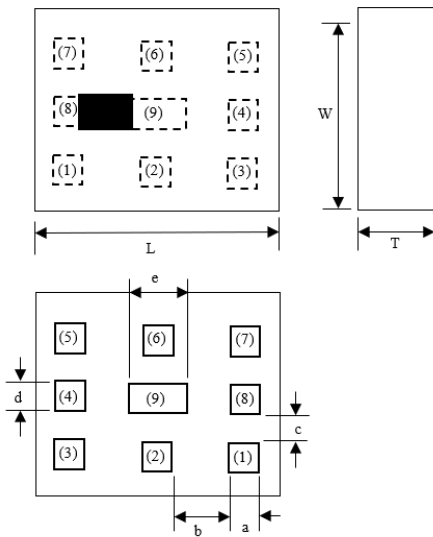
MECHANICAL DIMENSION

Outline

Dimension

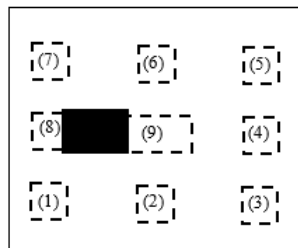
L	W	T	a
2.50±0.15	2.00±0.15	0.55±0.10	0.40±0.10
b	c	d	e
0.55±0.10	0.30±0.10	0.40±0.10	0.90±0.15

NOTE : Dimensions in mm.



Termination

Top View

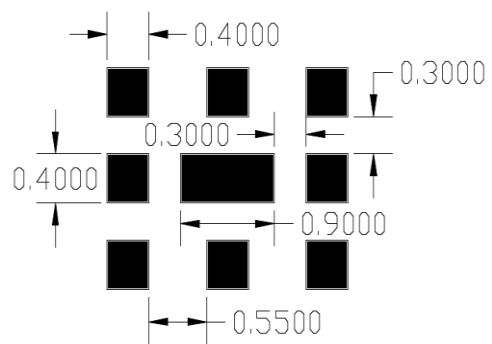
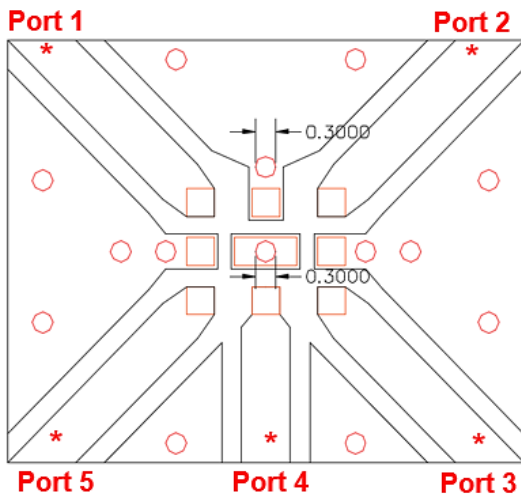


Terminal name

Function

1	LAA
2	UHB
3	MHB
4	GND
5	LB
6	GND
7	Common
8	GND
9	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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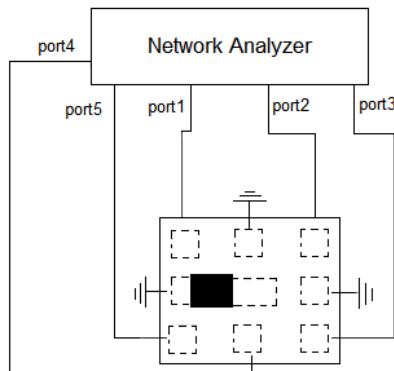
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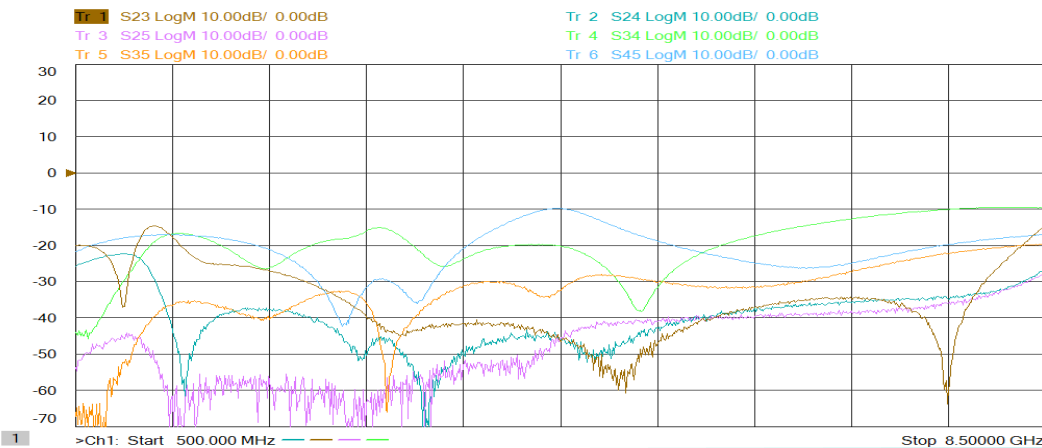
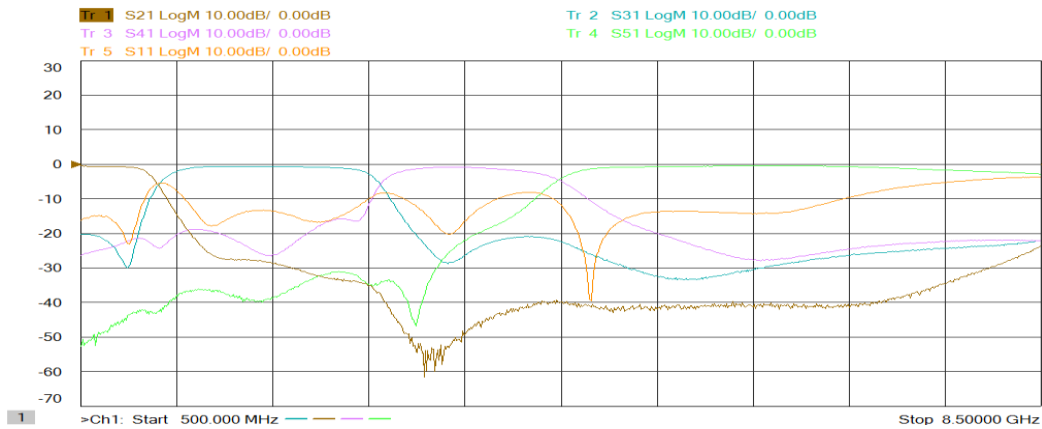
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MEASURING DIAGRAM



Test Instrument :  
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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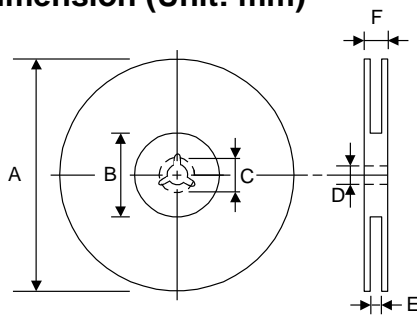
PACKING SPECIFICATION

Peel-off force



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

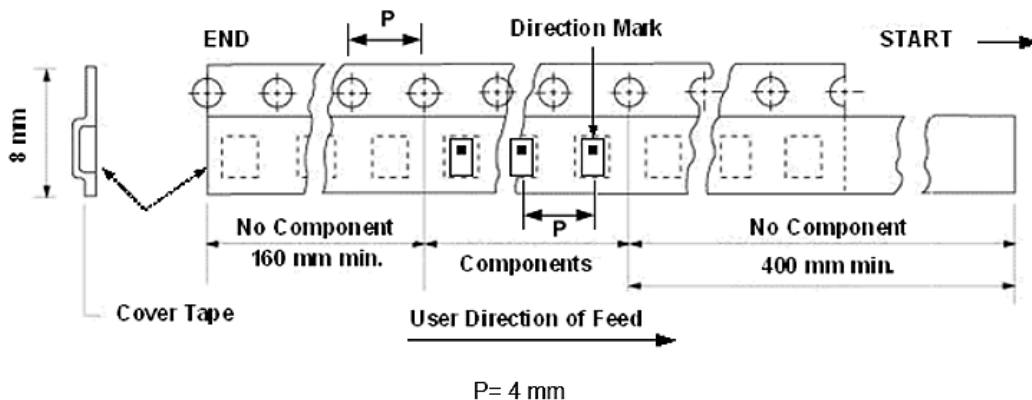
Dimension (Unit: mm)



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: 2520 Quadplexer****PART NUMBER: LQD-2520-DHNKA-A1****REVISION HISTORY**

Revision	Date	Description
Version 1	Sep. 05, 2024	- New issue