

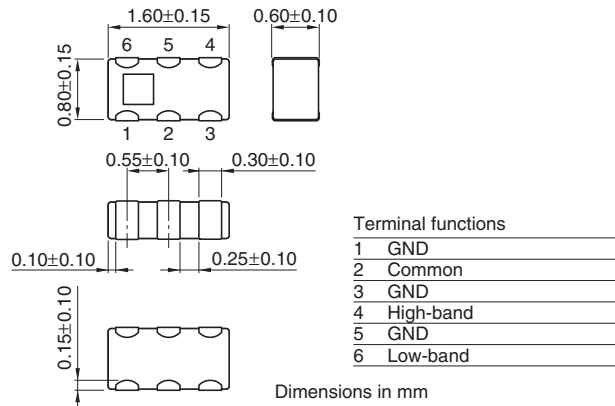
Multilayer Chip Diplexers

For 2.4/5.0 GHz W-LAN

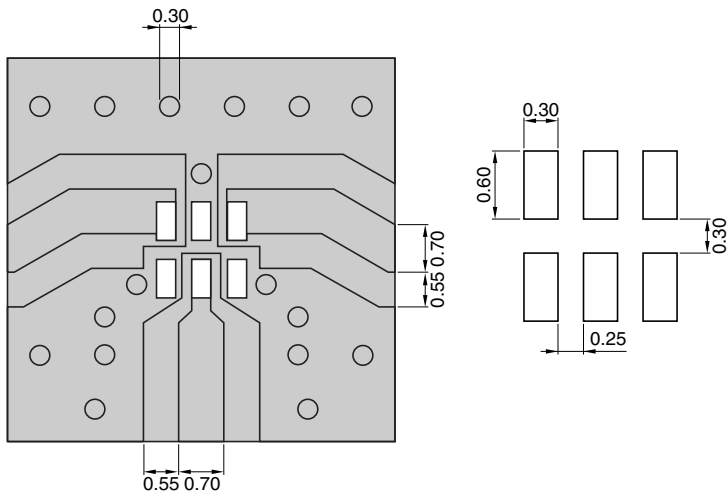
Conformity to RoHS Directive

DPX Series DPX165950DT-8026A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



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

Dimensions in mm

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- All specifications are subject to change without notice.

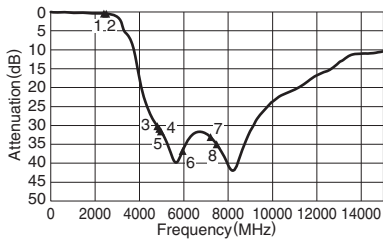
ELECTRICAL CHARACTERISTICS

Item	Frequency range	Minimum value	Typical value	Maximum value
Low-Band				
Insertion loss	2400 to 2496MHz	(dB) —	0.44	0.6
VSWR	2400 to 2500MHz	—	1.20	2.0
High-Band				
Insertion loss	4900 to 5950MHz	(dB) —	0.67	1.4
Attenuation	30 to 2700MHz	(dB) 28	34.4	—
	9800 to 11900MHz	(dB) 10	21.6	—
VSWR	14700 to 17850MHz	(dB) 5	14.6	—
	4900 to 5950MHz	—	1.29	2.0
Common				
Insertion loss	30 to 2700MHz	(dB) 28	34.6	—
	4900 to 5950MHz	(dB) 26	33.2	—
VSWR	2400 to 2500MHz	—	1.17	2.0
	4900 to 5950MHz	—	1.28	2.0
Temperature range	Operating	(°C) -40	—	+85
	Storage	(°C) -40	—	+85

- Ta: +25±5°C
- We recommend to terminate for all port with 50Ω at all times.

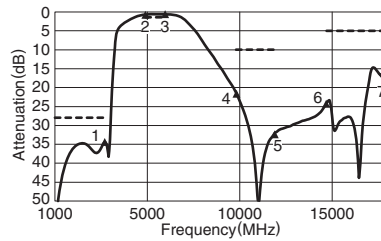
FREQUENCY CHARACTERISTICS

Low-BAND PORT



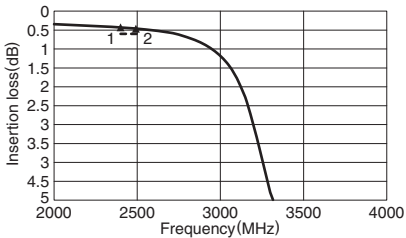
- 1: 2400MHz 0.43dB
- 2: 2496MHz 0.44dB
- 3: 4800MHz 30.18dB
- 4: 4900MHz 30.98dB
- 5: 4992MHz 31.39dB
- 6: 5950MHz 36.59dB
- 7: 7200MHz 33.06dB
- 8: 7488MHz 34.77dB

High-BAND PORT



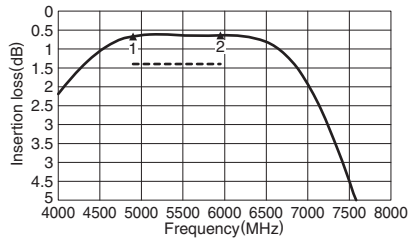
- 1: 2700MHz 34.40dB
- 2: 4900MHz 0.67dB
- 3: 5950MHz 0.64dB
- 4: 9800MHz 21.55dB
- 5: 11900MHz 32.00dB
- 6: 14700MHz 24.21dB
- 7: 17850MHz 17.83dB

Low-BAND PORT



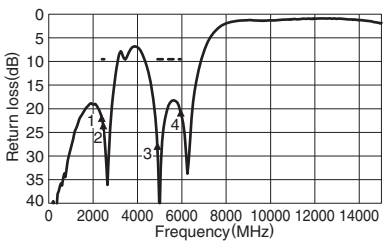
- 1: 2400MHz 0.43dB
- 2: 2496MHz 0.44dB

High-BAND PORT



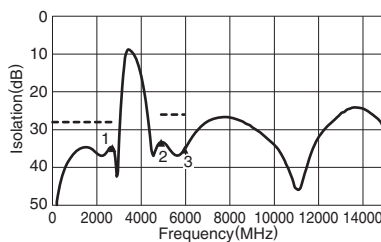
- 1: 4900MHz 0.67dB
- 2: 5950MHz 0.64dB

COMMON PORT RETURN LOSS



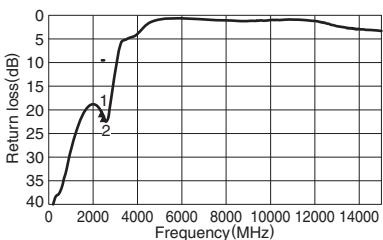
- 1: 2400MHz 21.92dB
- 2: 2496MHz 23.49dB
- 3: 4900MHz 27.75dB
- 4: 5950MHz 20.84dB

ISOLATION



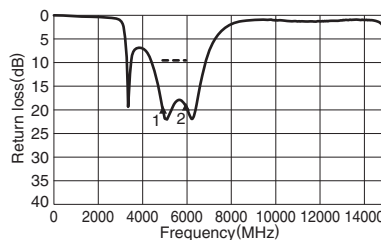
- 1: 2700MHz 34.6dB
- 2: 4900MHz 33.2dB
- 3: 5950MHz 35.3dB

Low-BAND PORT RETURN LOSS



- 1: 2400MHz 20.72dB
- 2: 2496MHz 21.53dB

High-BAND PORT RETURN LOSS



- 1: 4900MHz 19.83dB
- 2: 5950MHz 19.24dB

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