

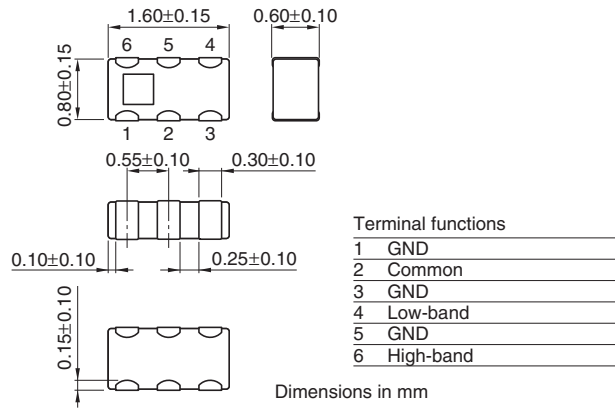
Multilayer Chip Diplexers

For 2.4/5.0 GHz W-LAN

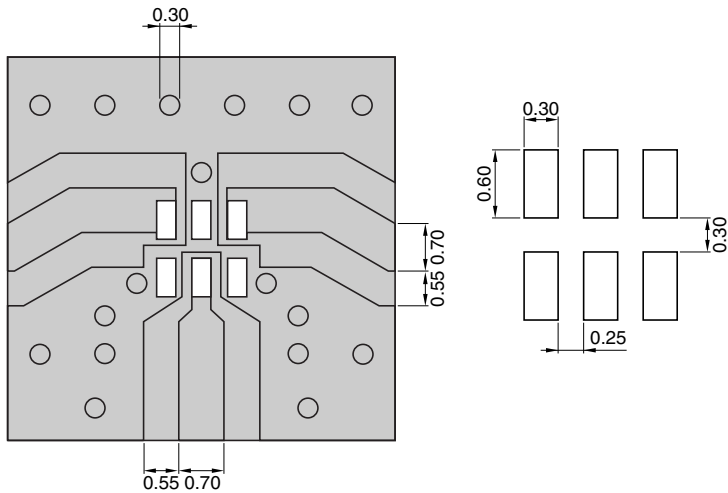
Conformity to RoHS Directive

DPX Series DPX165950DT-8126A1

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.

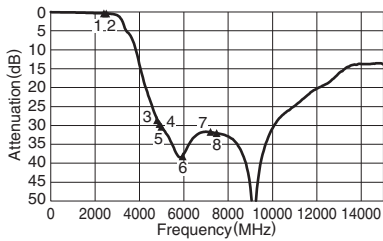
ELECTRICAL CHARACTERISTICS

Item	Frequency range	Minimum value	Typical value	Maximum value
Low-Band				
Insertion loss	2400 to 2496MHz	(dB) —	0.39	0.6
VSWR	2400 to 2500MHz	—	1.18	2.0
High-Band				
Insertion loss	4900 to 5950MHz	(dB) —	0.78	1.4
Attenuation	30 to 2700MHz	(dB) 28	34.9	—
	9800 to 11900MHz	(dB) 10	21.6	—
VSWR	14700 to 17850MHz	(dB) 5	14.4	—
	4900 to 5950MHz	—	1.35	2.0
Common				
Insertion loss	30 to 2700MHz	(dB) 28	34.2	—
(Low-High)	4900 to 5950MHz	(dB) 26	32.9	—
VSWR	2400 to 2500MHz	—	1.18	2.0
	4900 to 5950MHz	—	1.21	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.

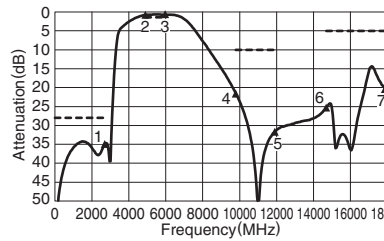
FREQUENCY CHARACTERISTICS

Low-BAND PORT



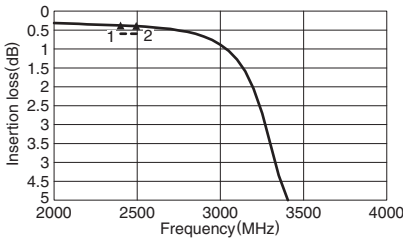
- 1: 2400MHz 0.38dB
- 2: 2496MHz 0.39dB
- 3: 4800MHz 28.45dB
- 4: 4900MHz 29.59dB
- 5: 4992MHz 30.03dB
- 6: 5950MHz 38.16dB
- 7: 7200MHz 31.75dB
- 8: 7488MHz 32.01dB

High-BAND PORT



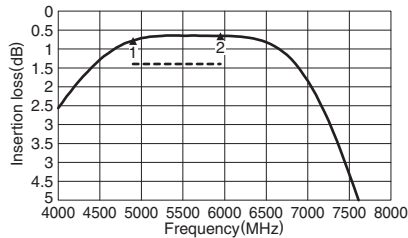
- 1: 2700MHz 34.93dB
- 2: 4900MHz 0.78dB
- 3: 5950MHz 0.66dB
- 4: 9800MHz 21.57dB
- 5: 11900MHz 31.57dB
- 6: 14700MHz 25.28dB
- 7: 17850MHz 20.13dB

Low-BAND PORT



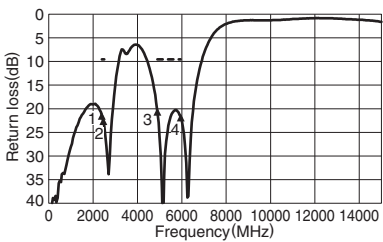
- 1: 2400MHz 0.38dB
- 2: 2496MHz 0.39dB

High-BAND PORT



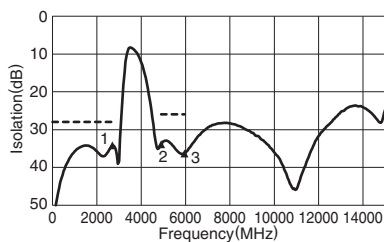
- 1: 4900MHz 0.78dB
- 2: 5950MHz 0.66dB

COMMON PORT RETURN LOSS



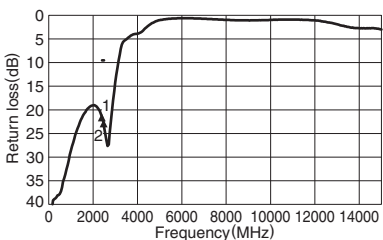
- 1: 2400MHz 21.45dB
- 2: 2496MHz 22.42dB
- 3: 4900MHz 20.59dB
- 4: 5950MHz 21.70dB

ISOLATION



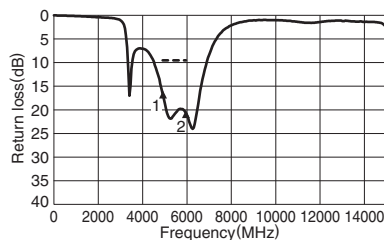
- 1: 2700MHz 34.2dB
- 2: 4900MHz 33.9dB
- 3: 5950MHz 36.4dB

Low-BAND PORT RETURN LOSS



- 1: 2400MHz 21.56dB
- 2: 2496MHz 22.52dB

High-BAND PORT RETURN LOSS



- 1: 4900MHz 16.62dB
- 2: 5950MHz 20.70dB

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