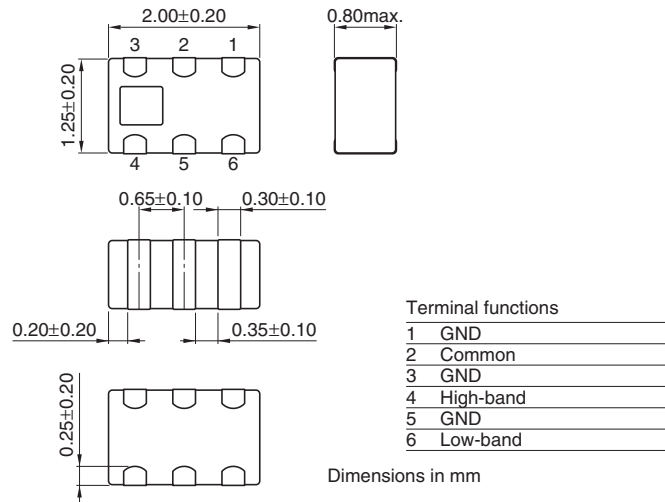


Multilayer Chip Diplexers For 2.4/5.0 GHz W-LAN

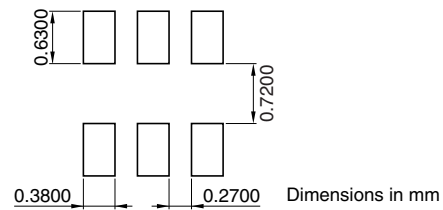
Conformity to RoHS Directive

DPX Series DPX205850DT-9038A1-H

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



- 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

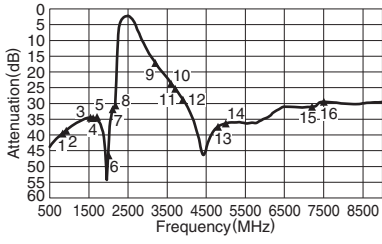
Item		Frequency range		Minimum value	Typical value	Maximum value
Low-Band						
Insertion loss	[+25°C]	2400 to 2500MHz	(dB)	—	2.00	2.2
	[−40 to +85°C]	2400 to 2500MHz	(dB)	—	—	2.4
Attenuation		824 to 915MHz	(dB)	30	38	—
		1545 to 1610MHz	(dB)	30	34	—
		1710 to 1990MHz	(dB)	30	35	—
		2110 to 2170MHz	(dB)	25	30	—
		3200 to 3600MHz	(dB)	15	17	—
		3700 to 3900MHz	(dB)	12	25	—
		4800 to 5000MHz	(dB)	28	36	—
		7200 to 7500MHz	(dB)	25	29	—
High-Band						
Insertion loss	[+25°C]	5150 to 5850MHz	(dB)	—	0.77	1.2
	[−40 to +85°C]	5150 to 5850MHz	(dB)	—	—	1.5
Attenuation		1545 to 1610MHz	(dB)	20	38	—
		1710 to 1990MHz	(dB)	20	29	—
		2110 to 2170MHz	(dB)	20	25	—
		2400 to 2500MHz	(dB)	23	26	—
		3450 to 3900MHz	(dB)	8	10	—
		7250 to 7800MHz	(dB)	8	26	—
		9800 to 11700MHz	(dB)	20	31	—
Common						
VSWR		2400 to 2500MHz	(dB)	—	1.34	2.0
		5150 to 5850MHz	(dB)	—	1.55	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.

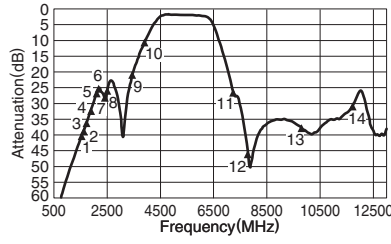
FREQUENCY CHARACTERISTICS

Low-BAND PORT



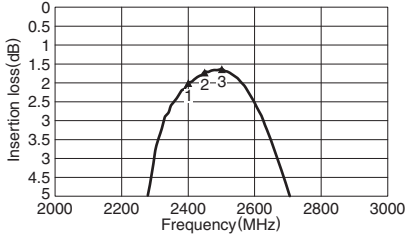
- 1: 824MHz 39.44dB
- 2: 915MHz 38.53dB
- 3: 1545MHz 34.49dB
- 4: 1610MHz 34.53dB
- 5: 1710MHz 35.13dB
- 6: 1990MHz 48.22dB
- 7: 2110MHz 31.67dB
- 8: 2170MHz 30.42dB
- 9: 3200MHz 17.07dB
- 10: 3600MHz 23.52dB
- 11: 3700MHz 25.16dB
- 12: 3900MHz 28.62dB
- 13: 4800MHz 37.26dB
- 14: 5000MHz 36.28dB
- 15: 7200MHz 31.11dB
- 16: 7500MHz 29.45dB

High-BAND PORT



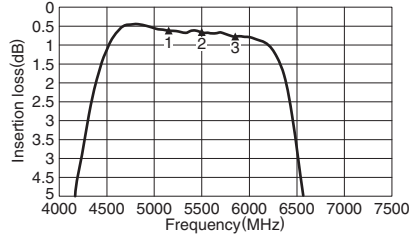
- 1: 1545MHz 40.17dB
- 2: 1610MHz 38.56dB
- 3: 1710MHz 36.39dB
- 4: 1990MHz 29.58dB
- 5: 2110MHz 26.40dB
- 6: 2170MHz 25.23dB
- 7: 2400MHz 28.02dB
- 8: 2500MHz 25.91dB
- 9: 3450MHz 20.82dB
- 10: 3900MHz 10.42dB
- 11: 7250MHz 26.54dB
- 12: 7800MHz 46.28dB
- 13: 9800MHz 37.58dB
- 14: 11700MHz 30.88dB

Low-BAND PORT



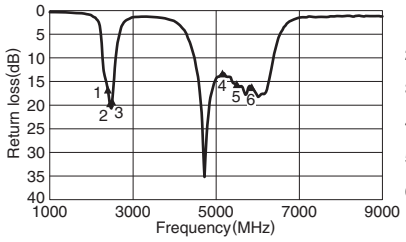
- 1: 2400MHz 2.00dB
- 2: 2450MHz 1.70dB
- 3: 2500MHz 1.63dB

High-BAND PORT



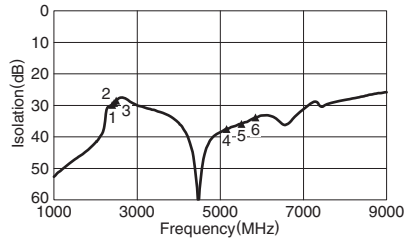
- 1: 5150MHz 0.62dB
- 2: 5500MHz 0.67dB
- 3: 5850MHz 0.77dB

COMMON PORT RETURN LOSS



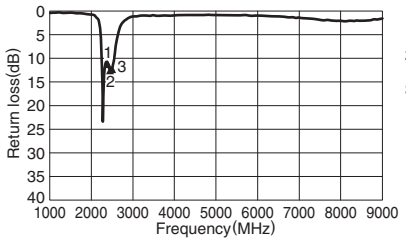
- 1: 2400MHz 16.73dB
- 2: 2450MHz 19.56dB
- 3: 2500MHz 19.29dB
- 4: 5150MHz 13.29dB
- 5: 5500MHz 15.53dB
- 6: 5850MHz 16.14dB

ISOLATION



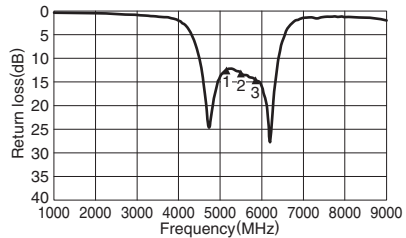
- 1: 2400MHz 29.8dB
- 2: 2450MHz 29.2dB
- 3: 2500MHz 28.5dB
- 4: 5150MHz 37.5dB
- 5: 5500MHz 35.8dB
- 6: 5850MHz 33.9dB

Low-BAND PORT RETURN LOSS



- 1: 2400MHz 11.22dB
- 2: 2450MHz 12.49dB
- 3: 2500MHz 12.37dB

High-BAND PORT RETURN LOSS



- 1: 5150MHz 12.41dB
- 2: 5500MHz 13.06dB
- 3: 5850MHz 14.63dB

• All specifications are subject to change without notice.