

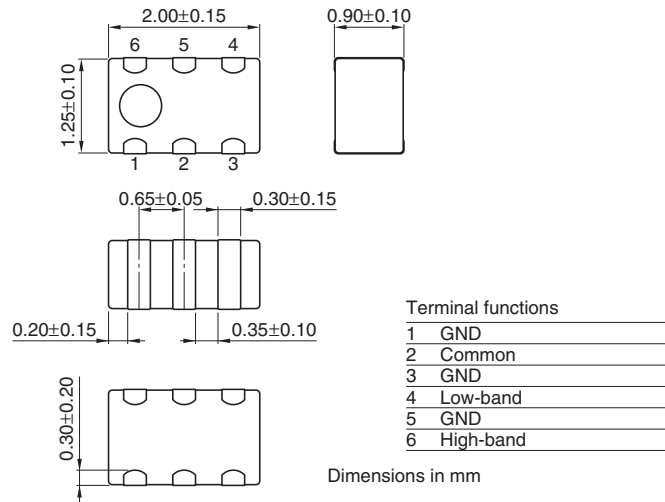
Multilayer Chip Diplexers

For Band8_17 GPS/2.4GHz&5GHz W-LAN

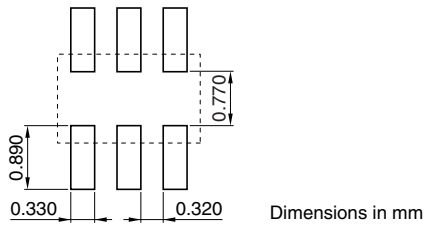
Conformity to RoHS Directive

DPX Series DPX205850DT-4152B2

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.

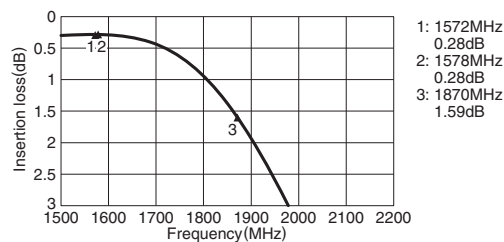
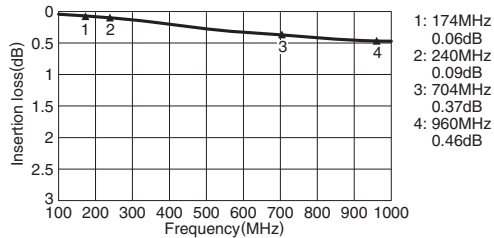
ELECTRICAL CHARACTERISTICS

Item		Frequency range		Minimum value	Typical value	Maximum value
Low-Band						
Insertion loss	[+25°C]	174 to 240MHz	(dB)	—	—	0.30
		704 to 960MHz	(dB)	—	—	0.65
		1572 to 1578MHz	(dB)	—	—	0.55
	[−40 to +85°C]	174 to 240MHz	(dB)	—	—	0.45
		704 to 960MHz	(dB)	—	—	0.80
		1572 to 1578MHz	(dB)	—	—	0.70
Return loss		174 to 240MHz	(dB)	15	—	—
		704 to 960MHz	(dB)	12	—	—
		1572 to 1578MHz	(dB)	15	—	—
Attenuation		2400 to 2500MHz	(dB)	13	—	—
		2500 to 2690MHz	(dB)	12	—	—
		5150 to 5850MHz	(dB)	22	—	—
High-Band						
Insertion loss	[+25°C]	2400 to 2500MHz	(dB)	—	—	0.45
		2500 to 2690MHz	(dB)	—	—	0.45
		5150 to 5850MHz	(dB)	—	—	0.40
	[−40 to +85°C]	2400 to 2500MHz	(dB)	—	—	0.60
		2500 to 2690MHz	(dB)	—	—	0.60
		5150 to 5850MHz	(dB)	—	—	0.55
Return loss		2400 to 2500MHz	(dB)	15	—	—
		2500 to 2690MHz	(dB)	15	—	—
		5150 to 5850MHz	(dB)	10	—	—
Attenuation		174 to 240MHz	(dB)	12	—	—
		704 to 960MHz	(dB)	9	—	—
		1572 to 1578MHz	(dB)	20	—	—
Temperature range		Operating	(°C)	−40	—	+85
		Storage	(°C)	−40	—	+85

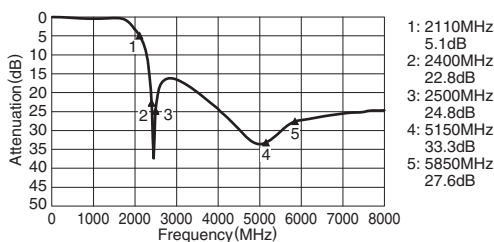
• Ta: +25°C

FREQUENCY CHARACTERISTICS

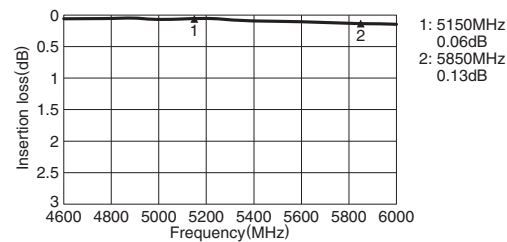
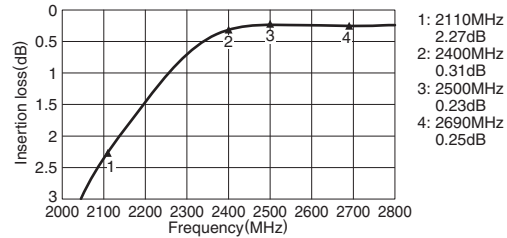
Low-BAND PORT INSERTION LOSS S31



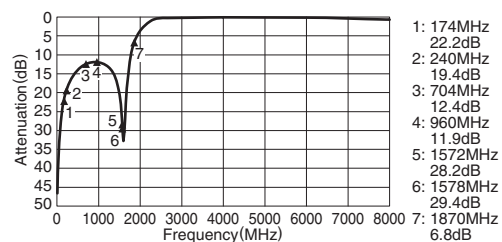
Low-BAND PORT ATTENUATION S31



High-BAND PORT INSERTION LOSS S21



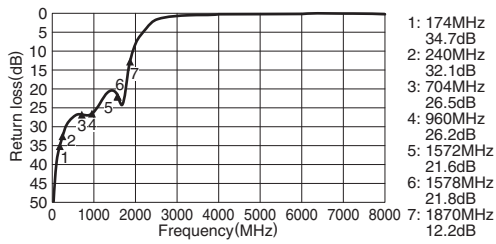
High-BAND PORT ATTENUATION S21



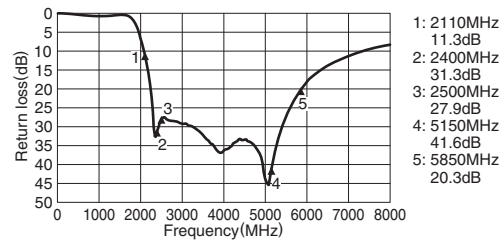
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FREQUENCY CHARACTERISTICS

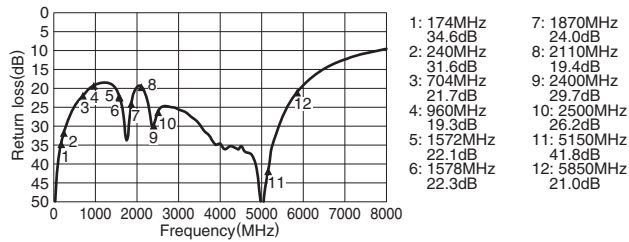
Low-BAND PORT RETURN LOSS S33



High-BAND PORT RETURN LOSS S22



COMMON PORT RETURN LOSS S11



ISOLATION(Low - High) S23

