

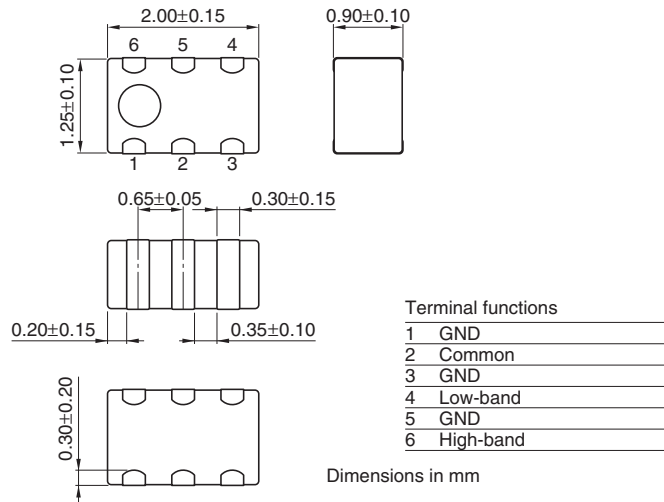
Multilayer Chip Diplexers

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

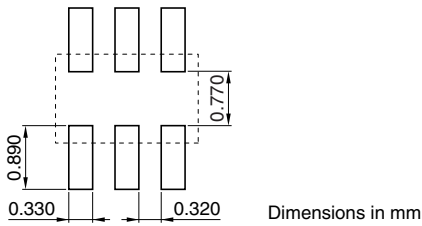
Conformity to RoHS Directive

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.

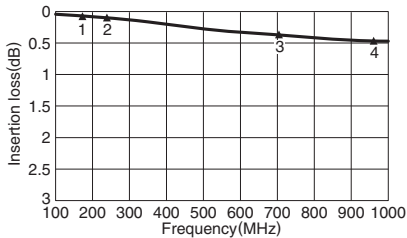
ELECTRICAL CHARACTERISTICS

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
	[-40 to +85°C]	1572 to 1578MHz	(dB) —	—	0.55
		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

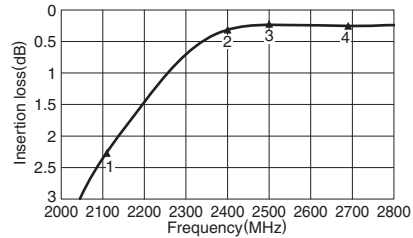
FREQUENCY CHARACTERISTICS

Low-BAND PORT INSERTION LOSS S31

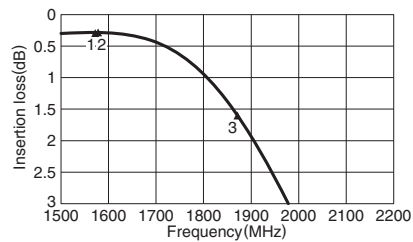


- 1: 174MHz
0.06dB
- 2: 240MHz
0.09dB
- 3: 704MHz
0.37dB
- 4: 960MHz
0.46dB

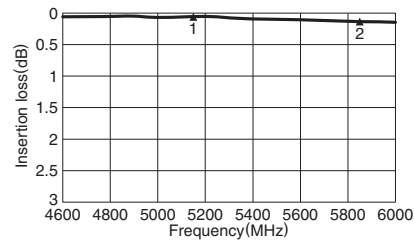
High-BAND PORT INSERTION LOSS S21



- 1: 2110MHz
2.27dB
- 2: 2400MHz
0.31dB
- 3: 2500MHz
0.23dB
- 4: 2690MHz
0.25dB

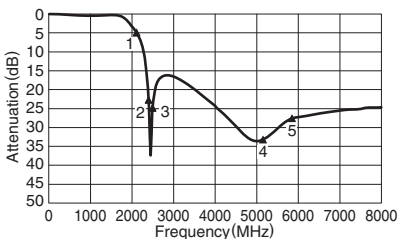


- 1: 1572MHz
0.28dB
- 2: 1578MHz
0.28dB
- 3: 1870MHz
1.59dB



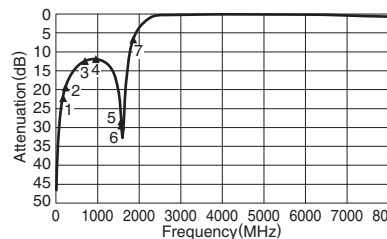
- 1: 5150MHz
0.06dB
- 2: 5850MHz
0.13dB

Low-BAND PORT ATTENUATION S31



- 1: 2110MHz
5.1dB
- 2: 2400MHz
22.8dB
- 3: 2500MHz
24.8dB
- 4: 5150MHz
33.3dB
- 5: 5850MHz
27.6dB

High-BAND PORT ATTENUATION S21

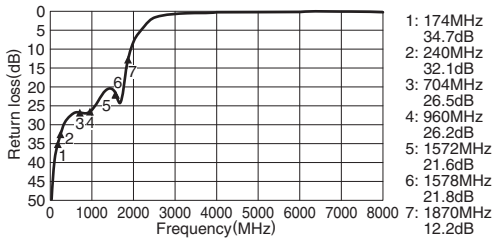


- 1: 174MHz
22.2dB
- 2: 240MHz
19.4dB
- 3: 704MHz
12.4dB
- 4: 960MHz
11.9dB
- 5: 1572MHz
28.2dB
- 6: 1578MHz
29.4dB
- 7: 1870MHz
6.8dB

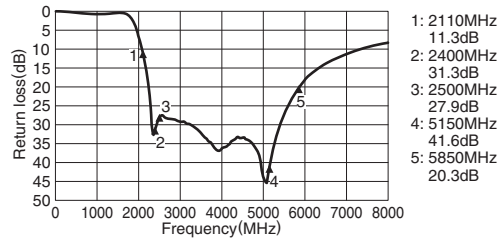
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FREQUENCY CHARACTERISTICS

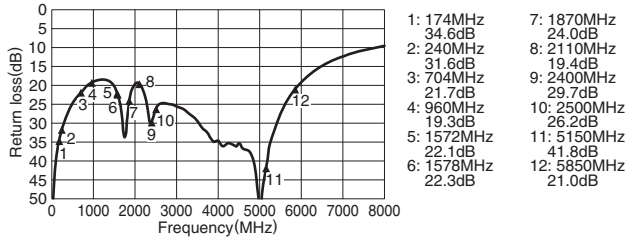
Low-BAND PORT RETURN LOSS S33



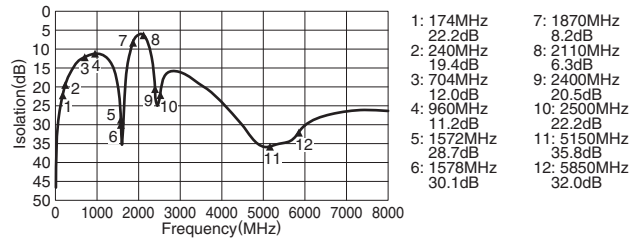
High-BAND PORT RETURN LOSS S22



COMMON PORT RETURN LOSS S11



ISOLATION(Low - High) S23



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