

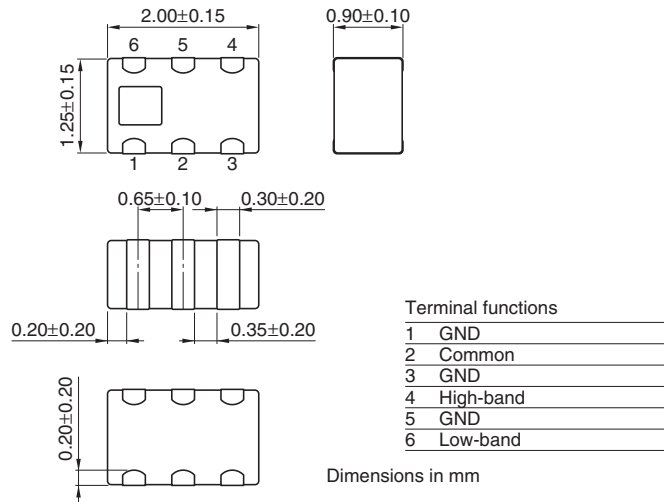
Multilayer Chip Diplexers

For UMTS & LTE / 2.4GHz WLAN

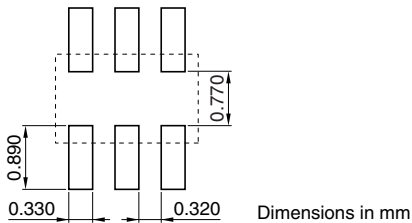
Conformity to RoHS Directive

DPX Series DPX202500DT-9032A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Item		Frequency range		Minimum value	Typical value	Maximum value
Low-Band						
Insertion loss	[+25°C]	824 to 960MHz	(dB)	—	0.23	0.4
		1710 to 1990MHz	(dB)	—	0.66	1.0
		2110 to 2170MHz	(dB)	—	1.20	1.8
	[-40 to +85°C]	824 to 960MHz	(dB)	—	—	0.5
		1710 to 1990MHz	(dB)	—	—	1.2
		2110 to 2170MHz	(dB)	—	—	2.1
VSWR		824 to 960MHz		—	1.34	2.0
		1710 to 1990MHz		—	1.40	2.0
		2110 to 2170MHz		—	1.41	2.0
Attenuation		2400 to 2500MHz	(dB)	10	22.4	—
		3420 to 4340MHz	(dB)	10	22.4	—
High-Band						
Insertion loss	[+25°C]	2400 to 2500MHz	(dB)	—	1.52	2.0
	[-40 to +85°C]	2400 to 2500MHz	(dB)	—	—	2.3
VSWR		2400 to 2500MHz		—	1.54	2.0
Attenuation		824 to 960MHz	(dB)	20	25.3	—
		1710 to 1990MHz	(dB)	15	20.4	—
		2110 to 2170MHz	(dB)	10	18.3	—
		4800 to 5000MHz	(dB)	15	35.7	—
		7200 to 7500MHz	(dB)	10	28.5	—
Temperature range	Operating		(°C)	-40	—	+85
	Storage		(°C)	-40	—	+85

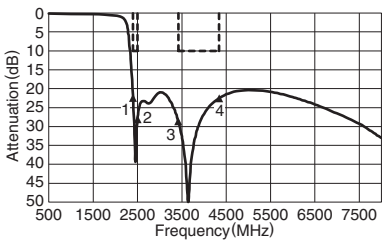
• Ta: +25°C

• 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.

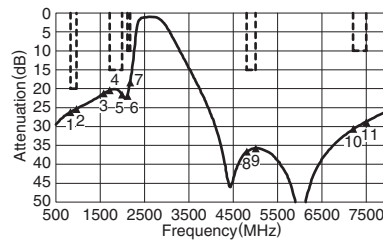
FREQUENCY CHARACTERISTICS

Low-BAND PORT ATTENUATION S21



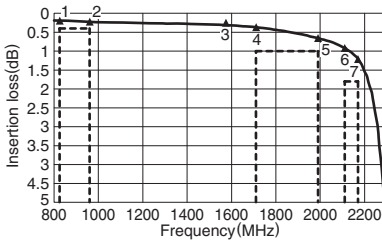
- 1: 2400MHz
22.48dB
- 2: 2500MHz
27.86dB
- 3: 3420MHz
28.53dB
- 4: 4340MHz
22.47dB

High-BAND PORT ATTENUATION S31



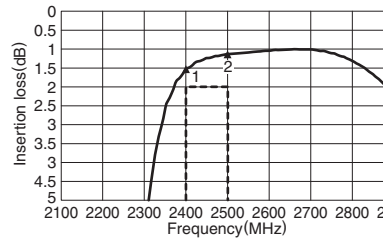
- 1: 824MHz
26.18dB
- 2: 960MHz
25.31dB
- 3: 1575MHz
21.26dB
- 4: 1710MHz
20.39dB
- 5: 1990MHz
21.53dB
- 6: 2110MHz
21.79dB
- 7: 2170MHz
18.32dB
- 8: 4800MHz
36.65dB
- 9: 5000MHz
35.78dB
- 10: 7200MHz
30.76dB
- 11: 7500MHz
28.71dB

Low-BAND PORT INSERTION LOSS S21



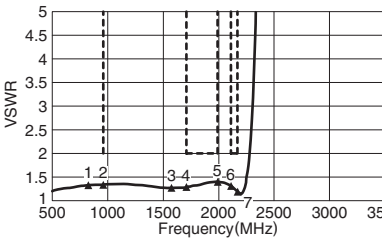
- 1: 824MHz
0.20dB
- 2: 960MHz
0.23dB
- 3: 1575MHz
0.31dB
- 4: 1710MHz
0.37dB
- 5: 1990MHz
0.66dB
- 6: 2110MHz
0.91dB
- 7: 2170MHz
1.20dB

High-BAND PORT INSERTION LOSS S31



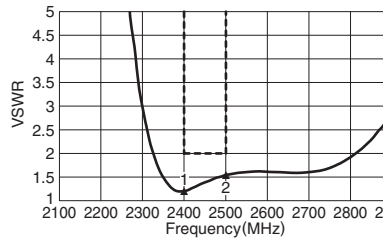
- 1: 2400MHz
1.52dB
- 2: 2500MHz
1.33dB

Low-BAND PORT VSWR S22



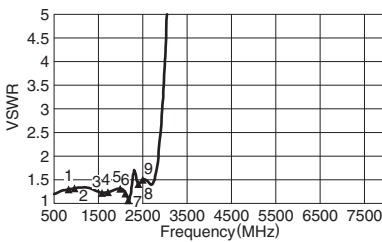
- 1: 824MHz
1.33
- 2: 960MHz
1.34
- 3: 1575MHz
1.27
- 4: 1710MHz
1.28
- 5: 1990MHz
1.40
- 6: 2110MHz
1.31
- 7: 2170MHz
1.19

High-BAND PORT VSWR S33



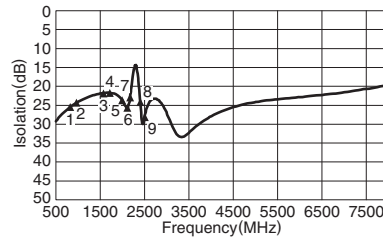
- 1: 2400MHz
1.21
- 2: 2500MHz
1.54

COMMON PORT VSWR S11



- 1: 824MHz
1.30
- 2: 960MHz
1.33
- 3: 1575MHz
1.23
- 4: 1710MHz
1.23
- 5: 1990MHz
1.31
- 6: 2110MHz
1.22
- 7: 2170MHz
1.08
- 8: 2400MHz
1.41
- 9: 2500MHz
1.50

ISOLATION S23



- 1: 824MHz
25.4dB
- 2: 960MHz
24.3dB
- 3: 1575MHz
21.7dB
- 4: 1710MHz
21.7dB
- 5: 1990MHz
23.6dB
- 6: 2110MHz
25.7dB
- 7: 2170MHz
22.9dB
- 8: 2400MHz
24.1dB
- 9: 2500MHz
28.1dB

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