

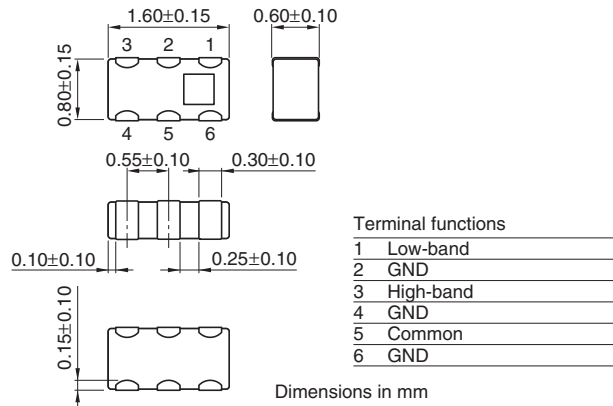
Multilayer Chip Diplexers

For 2.4/5.0 GHz W-LAN

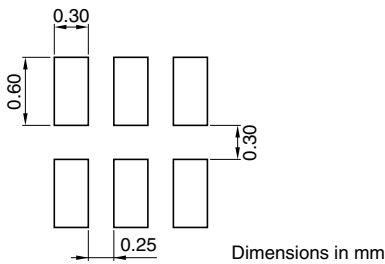
Conformity to RoHS Directive

DPX Series DPX165900DT-8125A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Item	Frequency range	Minimum value	Typical value	Maximum value
Low-Band				
Insertion loss	2400 to 2500MHz	(dB) —	0.38	0.6
Attenuation	4800 to 5000MHz	(dB) 18	24.1	—
	7200 to 7500MHz	(dB) 18	24.4	—
High-Band				
Insertion loss	5100 to 5900MHz	(dB) —	0.82	1.4
	1800 to 2500MHz	(dB) 20	31.1	—
Attenuation	3700 to 3900MHz	(dB) 20	32.5	—
	9800 to 11900MHz	(dB) 10	30.1	—
Common				
VSWR	2400 to 2500MHz	—	1.18	2.0
	5100 to 5900MHz	—	1.57	2.3
Temperature range	Operating	(°C) -40	—	+85
	Storage	(°C) -40	—	+85

- Ta: +25±5°C

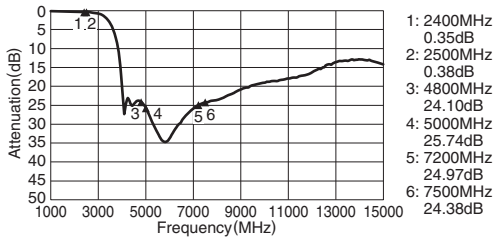
- We recommend to terminate for all port with 50Ω at all times.

- 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.

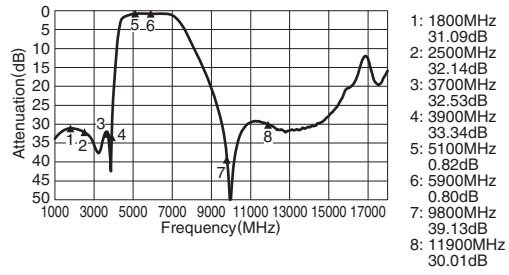
- All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

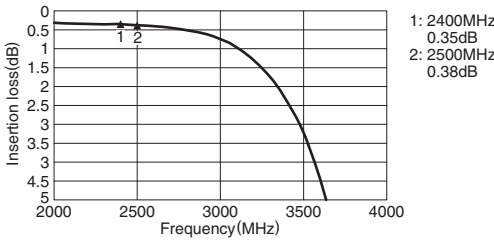
Low-BAND PORT S21



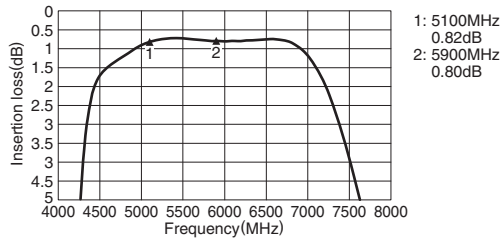
High-BAND PORT S31



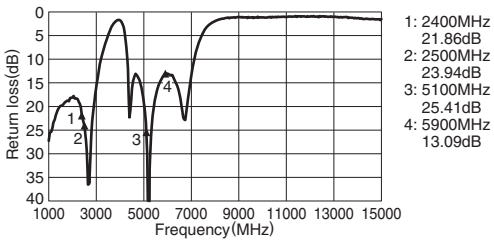
Low-BAND PORT S21



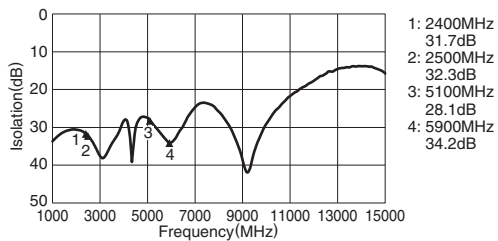
High-BAND PORT S31



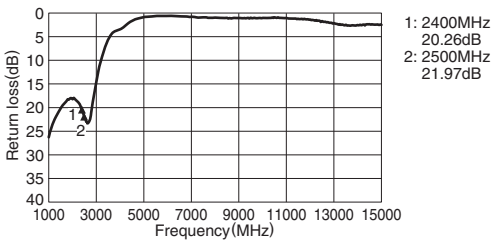
COMMON PORT RETURN LOSS S11



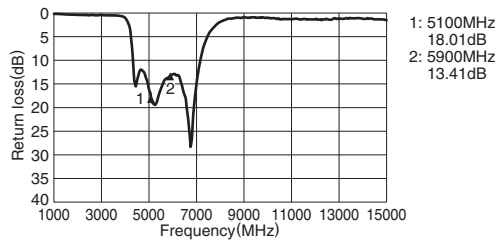
ISOLATION S23



Low-BAND PORT RETURN LOSS S22



High-BAND PORT RETURN LOSS S33



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