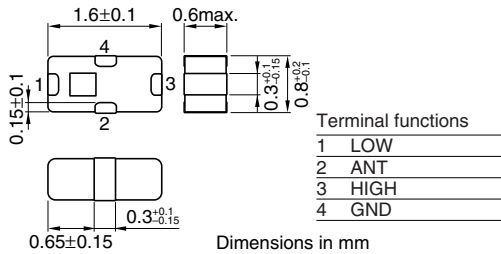


Multilayer Chip Diplexers For 2.4/5GHz W-LAN

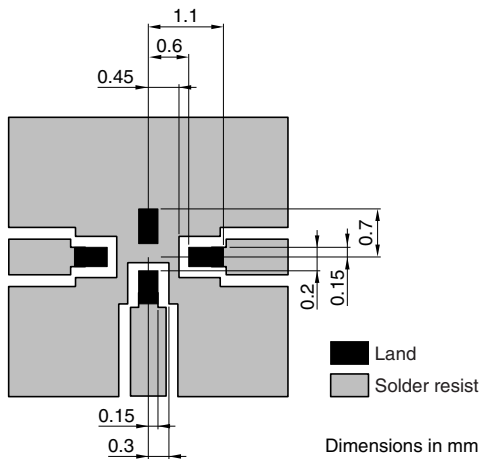
Conformity to RoHS Directive

DPX Series DPX165950DT-8018A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



Line width is designed to match 50Ω characteristic impedance depending on PCB material and thickness.

ELECTRICAL CHARACTERISTICS

Item	Port	Frequency range	Minimum value	Typical value	Maximum value
Insertion loss	LOW	2400 to 2500MHz	(dB) —	0.57	0.8
	HIGH	4900 to 5950MHz	(dB) —	0.67	0.9
Attenuation	LOW	4800 to 6000MHz	(dB) 20.0	24.4	—
	LOW	7200 to 7500MHz	(dB) 20.0	26.4	—
	HIGH	1800 to 2500MHz	(dB) 20.0	26.3	—
VSWR	HIGH	9800 to 11900MHz	(dB) 20.0	32.1	—
	LOW	2400 to 2500MHz	—	1.51	2.0
Temperature range	HIGH	4900 to 5950MHz	—	1.63	2.0
	Operating	(°C)	−40	—	+85
Storage	(°C)	−40	—	+85	

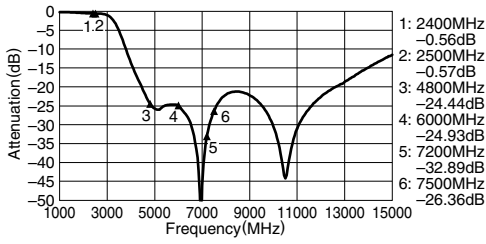
• Ta: +25±5°C

• 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.

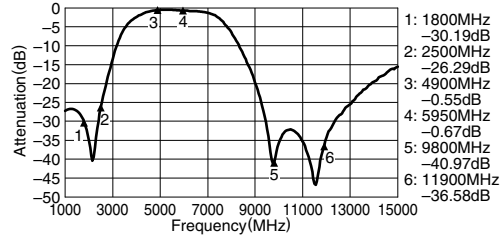
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

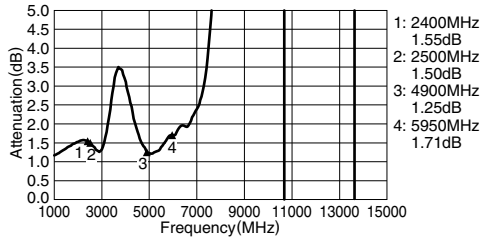
Lo-BAND PORT S21



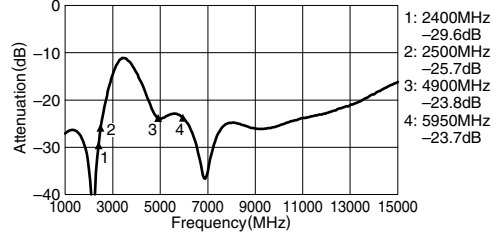
Hi-BAND PORT S31



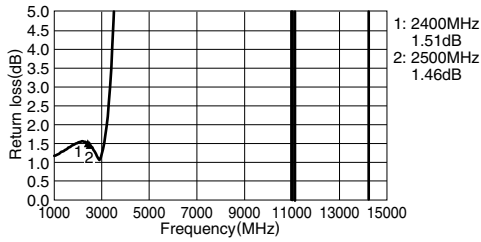
COMMON PORT VSWR S11



ISOLATION S23



Lo-BAND PORT VSWR S22



Hi-PORT VSWR S33

