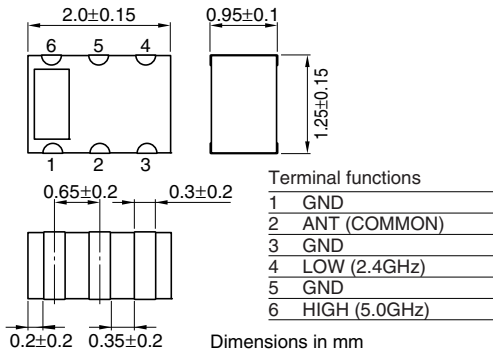


Multilayer Chip Diplexers For 2.4/5GHz W-LAN

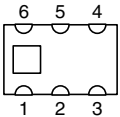
Conformity to RoHS Directive

DPX Series DPX205950DT-9108A1

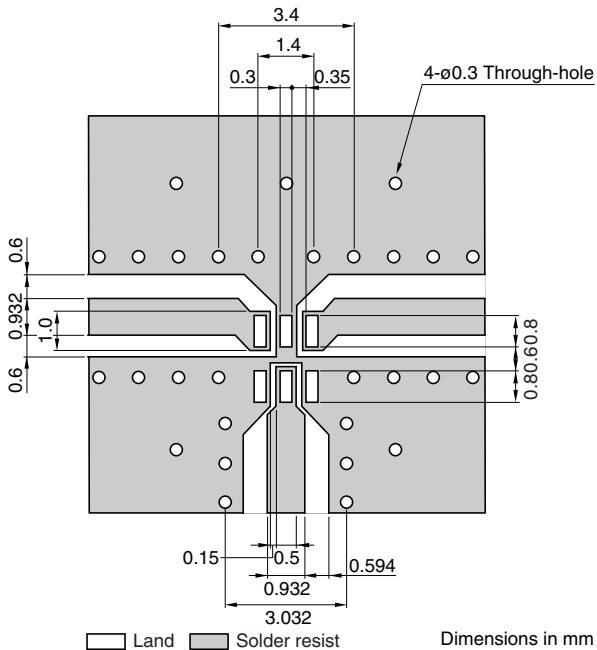
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERNS



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

• 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

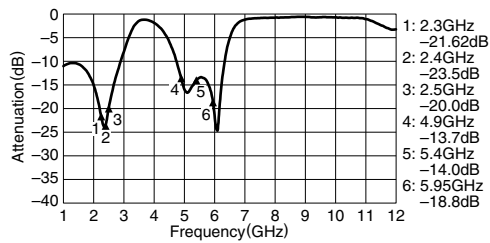
Item	Port		Frequency range		Minimum value	Typical value	Maximum value
Insertion loss	ANT-LOW	[25±5°C]	2300 to 2500MHz	(dB)	—	—	0.65
		[−40 to +85°C]	2300 to 2500MHz	(dB)	—	—	0.8
	ANT-HIGH	[25±5°C]	4900 to 5950MHz	(dB)	—	—	1.4
		[−40 to +85°C]	4900 to 5950MHz	(dB)	—	—	1.6
Attenuation	ANT-LOW		4600 to 5000MHz	(dB)	20	—	—
			6900 to 7500MHz	(dB)	20	—	—
	ANT-HIGH		2300 to 2500MHz	(dB)	20	—	—
			9800 to 11900MHz	(dB)	13	—	—
Return loss	ANT		2300 to 2500MHz	(dB)	10	—	—
	ANT		4900 to 5950MHz	(dB)	9	—	—
	LOW		2400 to 2500MHz	(dB)	10	—	—
	HIGH		4900 to 5950MHz	(dB)	9	—	—
Temperature range	Operating		(°C)		−40	—	+85
	Storage		(°C)		−40	—	+85

• Ta: +25°C

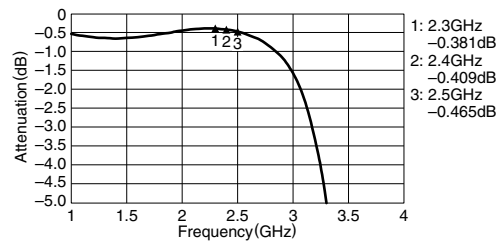
FREQUENCY CHARACTERISTICS

ANT-LOW

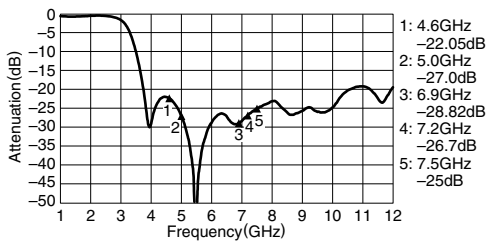
S11



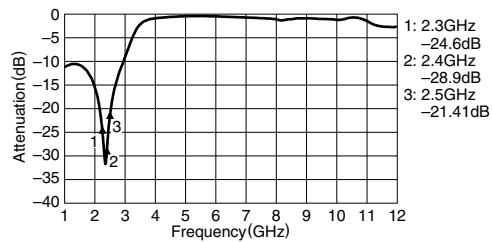
S21



S21

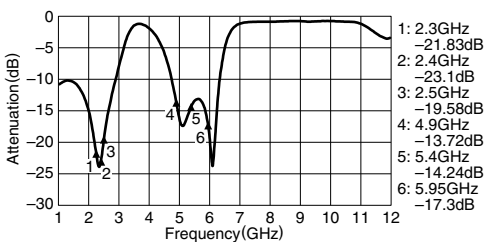


S22

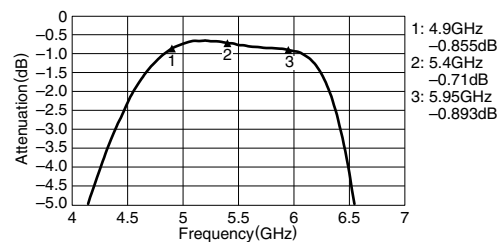


ANT-HIGH

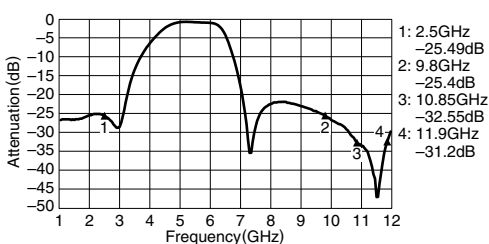
S11



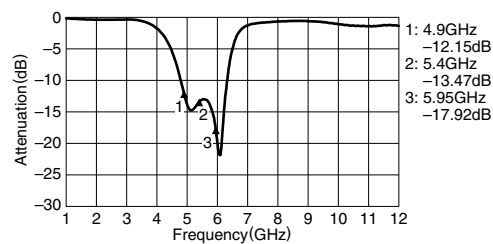
S21



S21



S22



• All specifications are subject to change without notice.