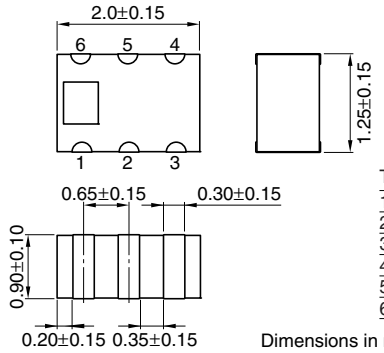
Multilayer Chip Diplexers For UMTS & LTE

Conformity to RoHS Directive

DPX Series DPX202690DT-4049A2

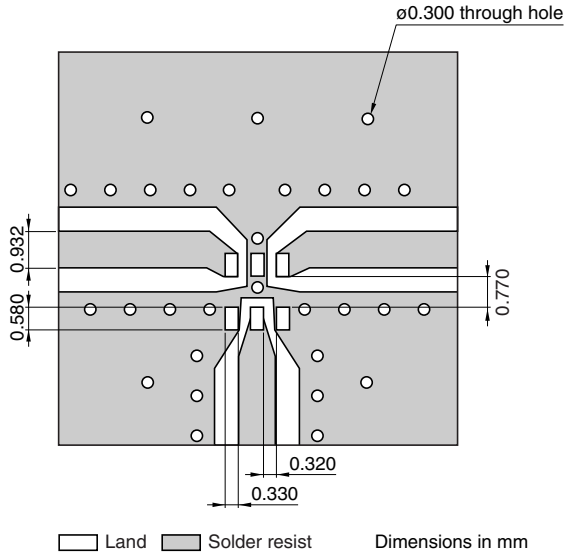
SHAPES AND DIMENSIONS



Terminal functions	
1	GND
2	ANT
3	GND
4	High-band
5	GND
6	Low-band

Dimensions in mm

RECOMMENDED PC BOARD PATTERNS



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Item	Port	Frequency range		Minimum value	Typical value	Maximum value
Insertion loss	Low-Band	704 to 960MHz	(dB)	—	0.24	0.30
	High-Band	1710 to 2170MHz	(dB)	—	0.38	0.50
		2170 to 2690MHz	(dB)	—	0.83	1.20
Attenuation	Low-Band	1710 to 2170MHz	(dB)	15	17.7	—
		2170 to 2690MHz	(dB)	13	16.8	—
	High-Band	704 to 824MHz	(dB)	17	20.4	—
		824 to 960MHz	(dB)	20	22.8	—
VSWR	ANT	704 to 824MHz		—	1.31	1.7
		824 to 960MHz		—	1.24	1.5
		1710 to 2170MHz		—	1.53	1.7
		2170 to 2690MHz		—	2.14	2.5
	Low-Band	704 to 824MHz		—	1.29	1.7
		824 to 960MHz		—	1.23	1.5
	High-Band	1710 to 2170MHz		—	1.51	1.7
		2170 to 2690MHz		—	2.13	2.5
Power capacity			(dBm)	—	—	+35
Temperature range		Operating	(°C)	–40	—	+85
		Storage	(°C)	–40	—	+85

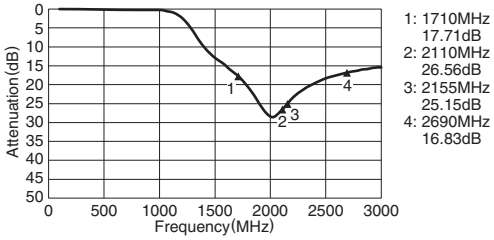
• Ta:+25°C

- 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.

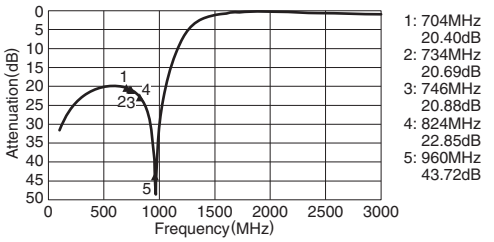
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

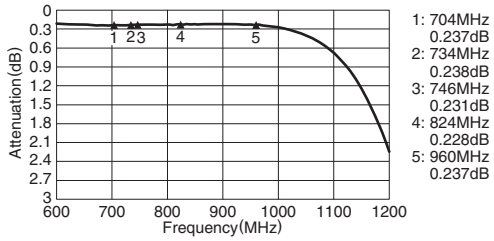
Low-BAND PORT S21



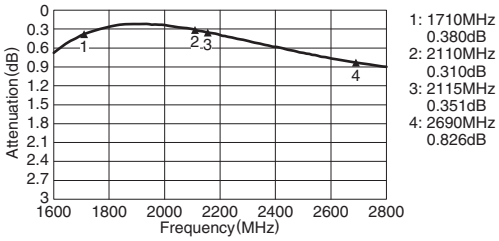
High-BAND PORT S31



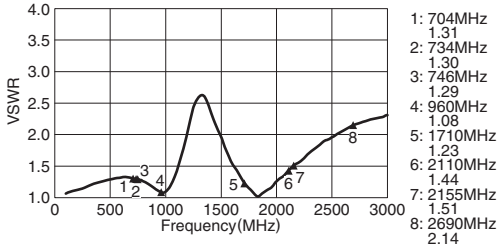
Low-BAND PORT S21



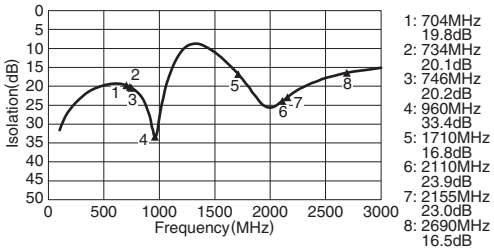
High-BAND PORT S31



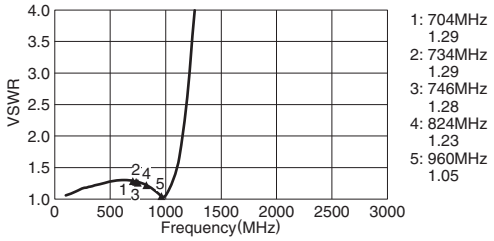
COMMON PORT VSWR S11



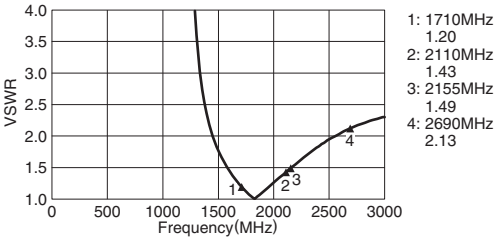
ISOLATION S23



Low-BAND PORT VSWR S22



High-BAND PORT VSWR S33



• All specifications are subject to change without notice.