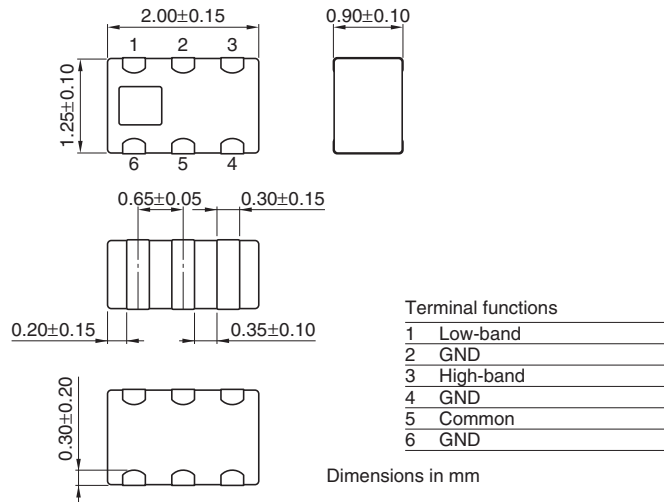


Multilayer Chip Diplexers For GPS / UMTS & LTE

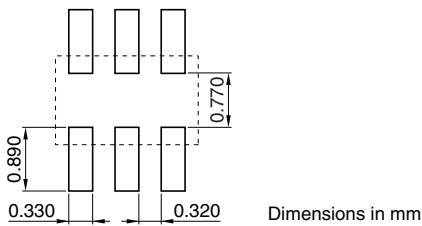
Conformity to RoHS Directive

DPX Series DPX202700DT-4035B5

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



- 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.

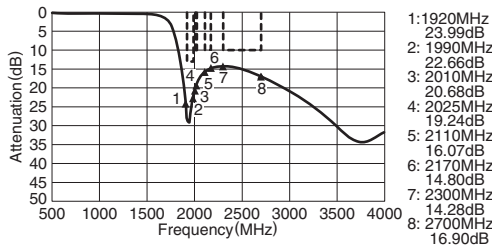
ELECTRICAL CHARACTERISTICS

Item		Frequency range		Minimum value	Typical value	Maximum value
Low-Band						
Insertion loss	[+25°C]	698 to 960MHz	(dB)	—	0.31	0.50
		960 to 1572MHz	(dB)	—	0.57	0.85
		1572 to 1578MHz	(dB)	—	0.57	0.85
		1605 to 1616MHz	(dB)	—	0.75	1.10
	[−40 to +85°C]	698 to 960MHz	(dB)	—	—	0.60
		960 to 1572MHz	(dB)	—	—	1.05
		1572 to 1578MHz	(dB)	—	—	1.05
		1605 to 1616MHz	(dB)	—	—	1.30
VSWR		698 to 960MHz		—	1.0	2.0
		960 to 1572MHz		—	1.1	2.0
		1572 to 1578MHz		—	1.1	2.0
		1605 to 1616MHz		—	1.2	2.0
Attenuation		1920 to 1990MHz	(dB)	13	22	—
		2010 to 2025MHz	(dB)	10	16	—
		2110 to 2170MHz	(dB)	10	15	—
		2300 to 2700MHz	(dB)	10	14	—
High-Band						
Insertion loss	[+25°C]	1920 to 1990MHz	(dB)	—	0.74	1.10
		2010 to 2025MHz	(dB)	—	0.54	0.80
		2110 to 2170MHz	(dB)	—	0.52	0.80
		2300 to 2700MHz	(dB)	—	0.53	0.80
	[−40 to +85°C]	1920 to 1990MHz	(dB)	—	—	1.30
		2010 to 2025MHz	(dB)	—	—	1.00
		2110 to 2170MHz	(dB)	—	—	1.00
		2300 to 2700MHz	(dB)	—	—	1.00
VSWR		1920 to 1990MHz		—	1.3	2.0
		2010 to 2025MHz		—	1.3	2.0
		2110 to 2170MHz		—	1.5	2.0
		2300 to 2700MHz		—	1.7	2.2
Attenuation		698 to 960MHz	(dB)	10	14	
		960 to 1572MHz	(dB)	10	14	
		1572 to 1578MHz	(dB)	18	30	
		1605 to 1616MHz	(dB)	13	25	
Temperature range		Operating	(°C)	−40	—	+85
		Storage	(°C)	−40	—	+85

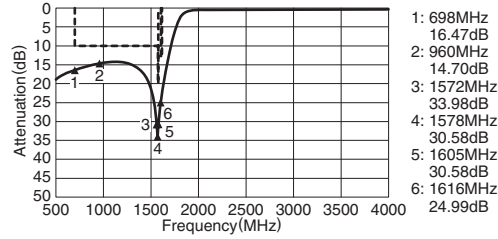
• Ta: +25°C

FREQUENCY CHARACTERISTICS

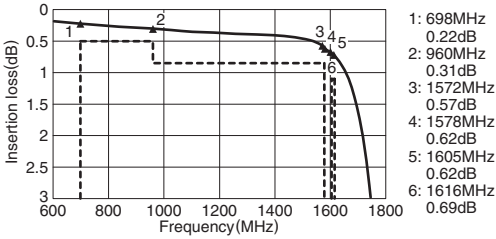
Low-BAND PORT ATTENUATION S21



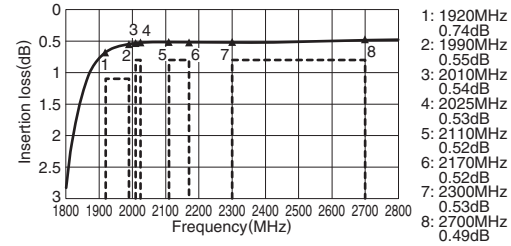
High-BAND PORT ATTENUATION S31



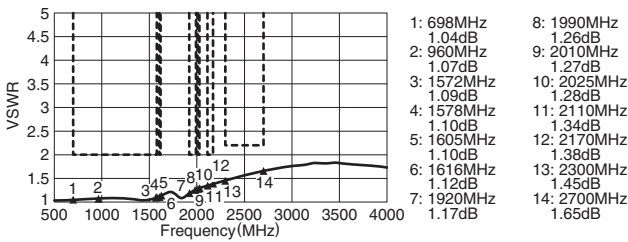
Low-BAND PORT INSERTION LOSS S21



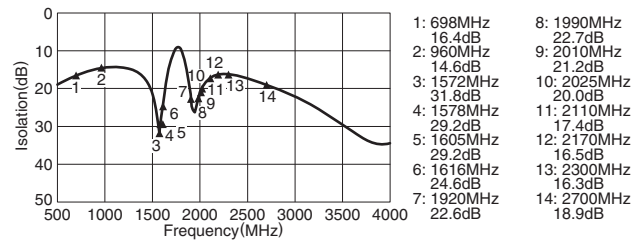
High-BAND PORT INSERTION LOSS S31



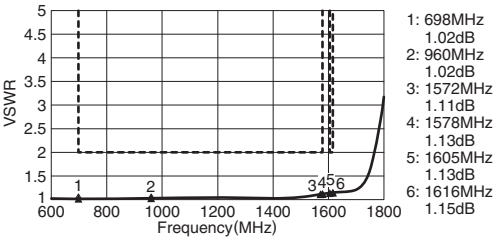
COMMON PORT VSWR S11



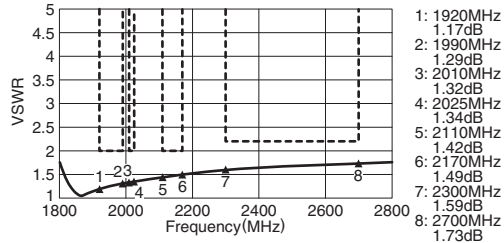
ISOLATION S23



Low-BAND PORT VSWR S22



High-BAND PORT VSWR S23



• All specifications are subject to change without notice.