

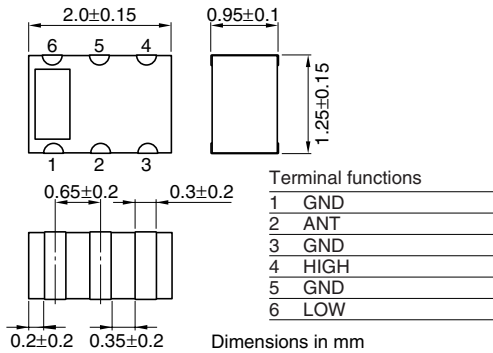
Multilayer Chip Diplexers

For AGSM/PCS Tx/Rx

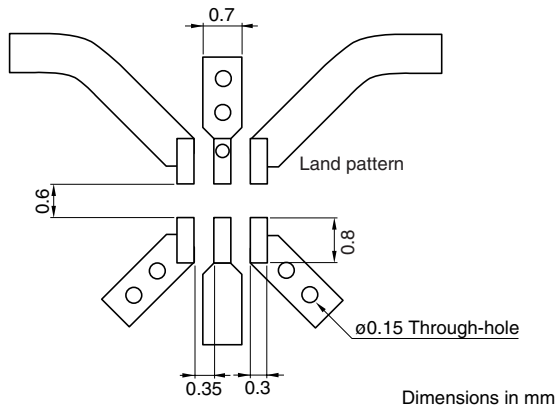
Conformity to RoHS Directive

DPX Series DPX201990DT-4014A2

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



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

ELECTRICAL CHARACTERISTICS

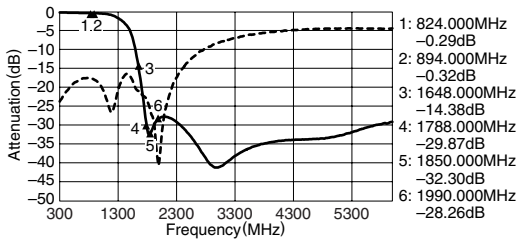
Item	Port	Temperature	Frequency range	Unit	Minimum value	Typical value	Maximum value
Insertion loss	Lo-band	[−40 to +85°C]	824 to 894MHz	(dB)	—	—	0.5
	Hi-band	[−40 to +85°C]	1850 to 1990MHz	(dB)	—	—	0.55
	Lo-band	[25°C]	824 to 894MHz	(dB)	—	—	0.45
	Hi-band	[25°C]	1850 to 1990MHz	(dB)	—	—	0.5
Return loss	ANT		824 to 894, 1850 to 1990MHz	(dB)	10.0	—	—
	Hi-band		824 to 894MHz	(dB)	19.0	—	—
Attenuation	Lo-band		1850 to 1990MHz	(dB)	20.0	—	—
	Lo-band		1648 to 1788MHz(AGSM 2fo)	(dB)	10.0	—	—
	Lo-band		2472 to 2682MHz(AGSM 3fo)	(dB)	28.0	—	—
Power capability				(W)	—	—	3.0
Temperature range		Operating		(°C)	−40	—	+85
		Storage		(°C)	−40	—	+85

• 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.

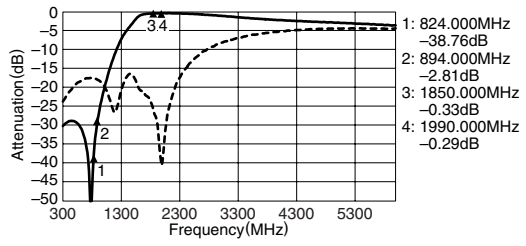
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

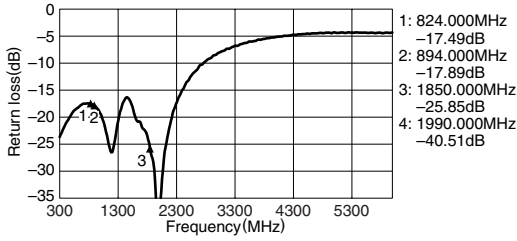
Lo-BAND PORT S21



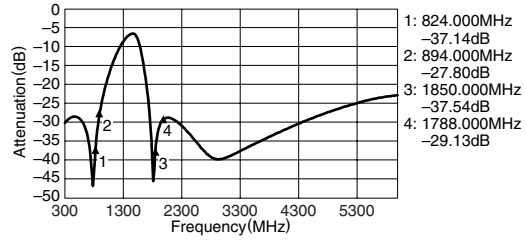
Hi-BAND PORT S31



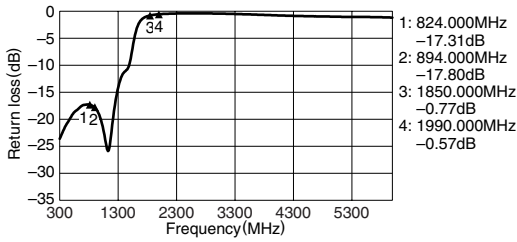
COMMON PORT RETURN LOSS S11



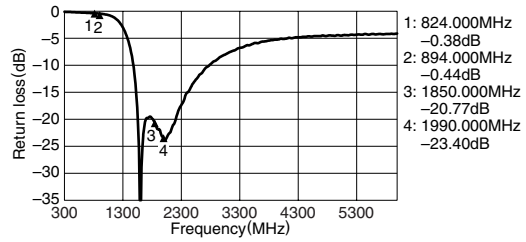
ISOLATION S23



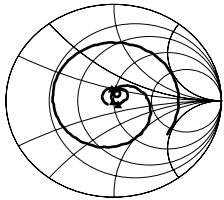
Lo-BAND PORT RETURN LOSS S22



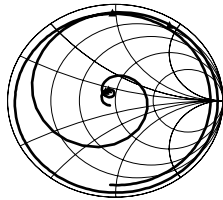
Hi-PORT RETURN LOSS S33



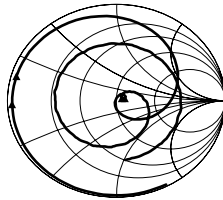
SMITH CHARTS



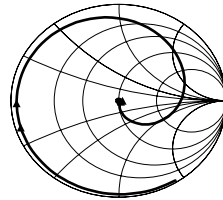
S11



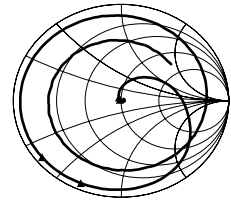
S22



S33



S21



S31