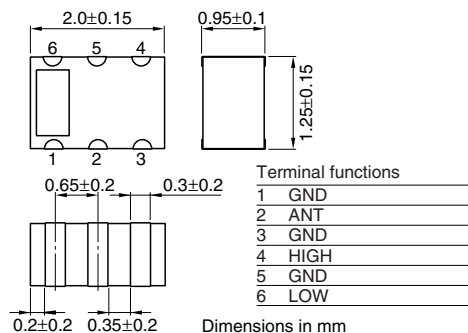


# Multilayer Chip Diplexers For AGSM/PCS Tx/Rx

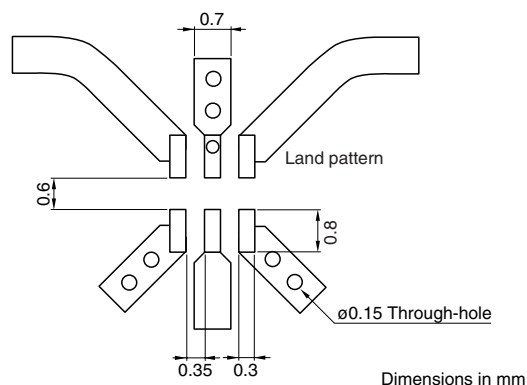
Conformity to RoHS Directive

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

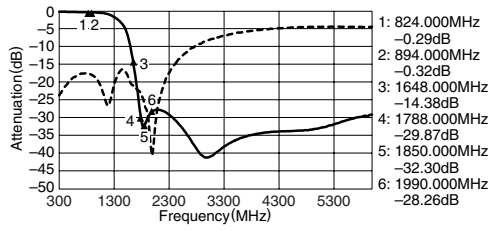
Item	Port	Frequency range	Minimum value	Typical value	Maximum value
Insertion loss	Lo-band	[−40 to +85°C] 824 to 894MHz	(dB) —	—	0.5
	Hi-band	[−40 to +85°C] 1850 to 1990MHz	(dB) —	—	0.55
	Lo-band	[25°C] 824 to 894MHz	(dB) —	—	0.45
	Hi-band	[25°C] 1850 to 1990MHz	(dB) —	—	0.5
Return loss	ANT	824 to 894, 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.

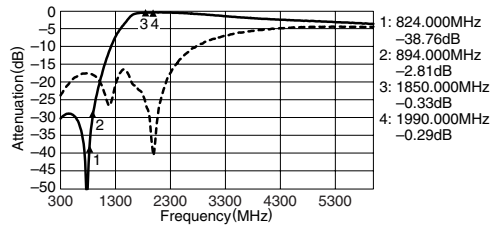
• All specifications are subject to change without notice.

### FREQUENCY CHARACTERISTICS

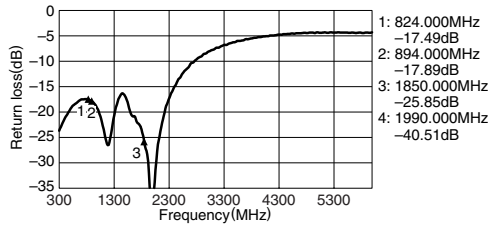
#### Lo-BAND PORT S21



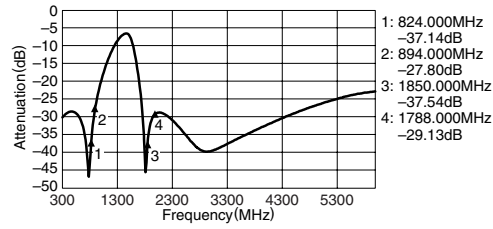
#### Hi-BAND PORT S31



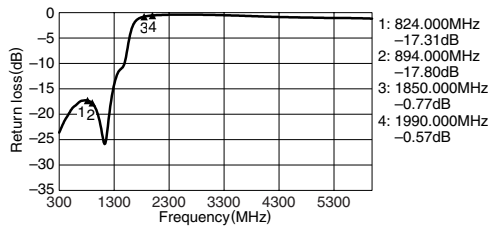
#### COMMON PORT RETURN LOSS S11



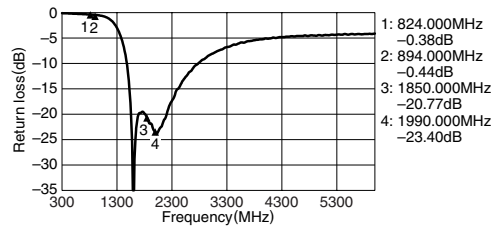
#### ISOLATION S23



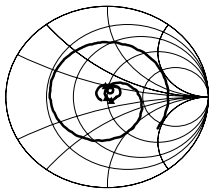
#### Lo-BAND PORT RETURN LOSS S22



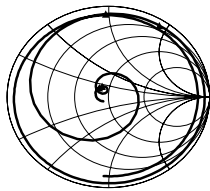
#### Hi-PORT RETURN LOSS S33



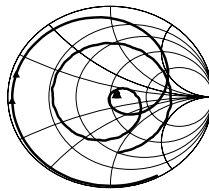
### SMITH CHARTS



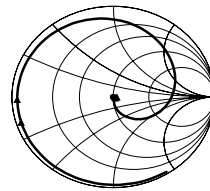
S11



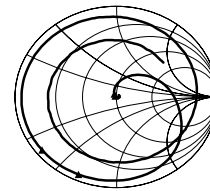
S22



S33



S21



S31

• All specifications are subject to change without notice.