Multilayer Diplexers

For GSM850/GSM900/DCS/PCS Tx & Rx

DPX Series

Type: **DPX201990DT-4011D1 (2.0×1.25×1.0mm max.)**

Issue date: December 2010

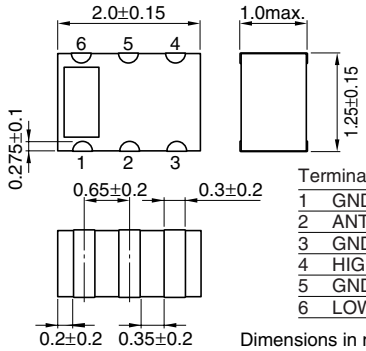
- All specifications are subject to change without notice.
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

Multilayer Chip Diplexers For GSM850/GSM900/DCS/PCS

Conformity to RoHS Directive

DPX Series DPX201990DT-4011D1

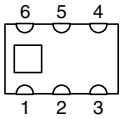
SHAPES AND DIMENSIONS



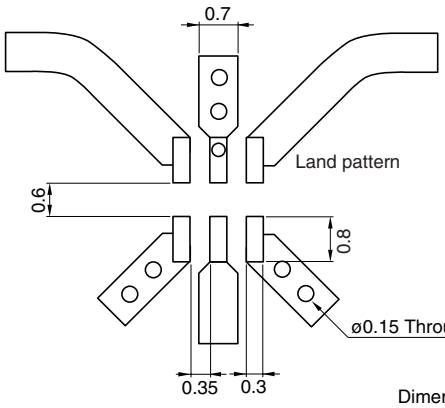
Terminal functions	
1	GND
2	ANT
3	GND
4	HIGH
5	GND
6	LOW

Dimensions in mm

CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERNS



Dimensions in mm

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	824 to 960MHz	(dB)	—	—	0.5
	Hi-band	1710 to 1990MHz	(dB)	—	—	0.55
Return loss	ANT	824 to 960MHz	(dB)	10.0	—	—
	ANT	1710 to 1990MHz	(dB)	10.0	—	—
Attenuation	Hi-band	824 to 960MHz	(dB)	20.0	—	—
	Lo-band	1710 to 1990MHz	(dB)	20.0	—	—
Temperature range		Operating	(°C)	–40	—	+85
		Storage	(°C)	–40	—	+85

• Ta:+25°C

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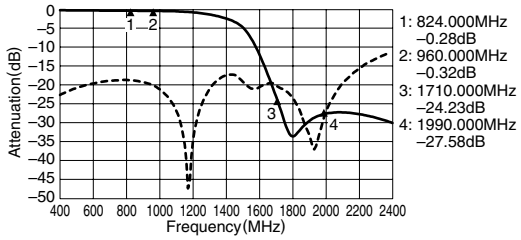
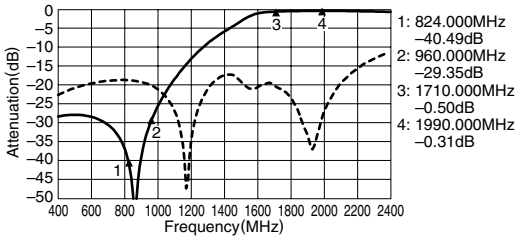
FREQUENCY CHARACTERISTICS

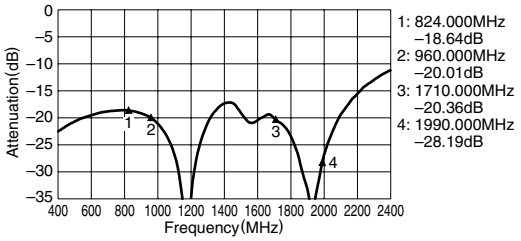
Lo-BAND PORT S21



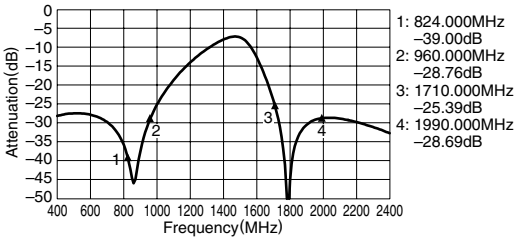
Hi-BAND PORT S31



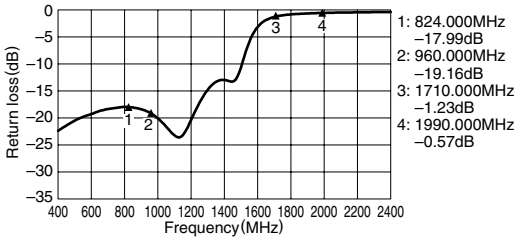
COMMON PORT RETURN LOSS S11



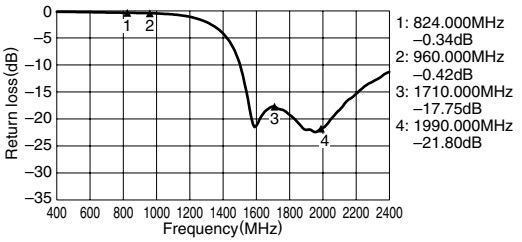
ISOLATION S23



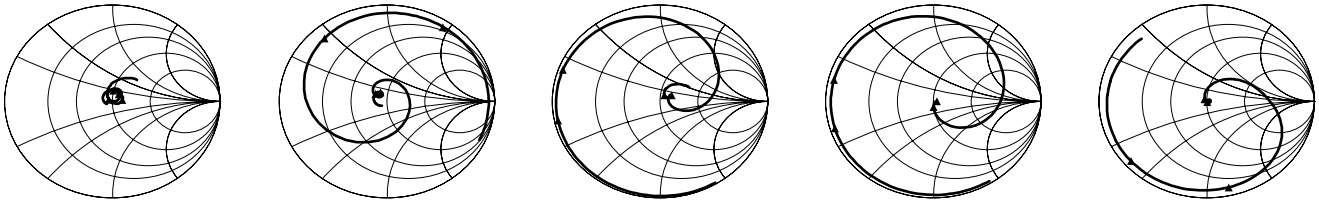
Lo-BAND PORT RETURN LOSS S22



Hi-PORT RETURN LOSS S33



SMITH CHARTS



S11 S22 S33 S21 S31