

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.
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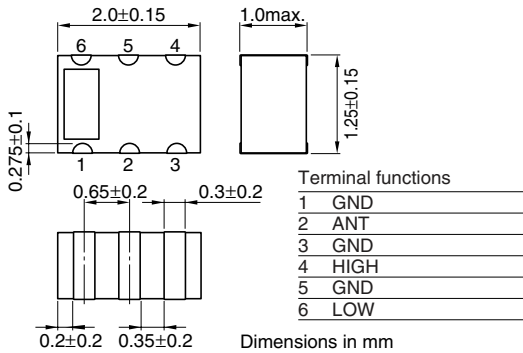
Multilayer Chip Diplexers

For GSM850/GSM900/DCS/PCS

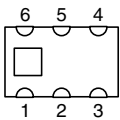
Conformity to RoHS Directive

DPX Series DPX201990DT-4011D1

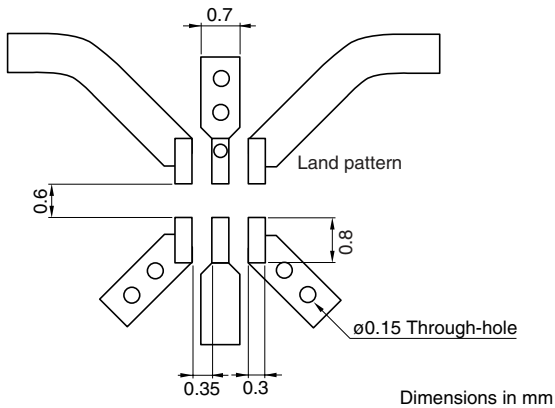
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



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	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

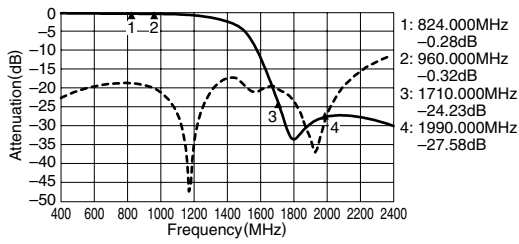
• Ta: +25°C

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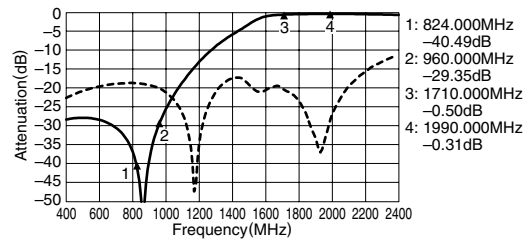
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FREQUENCY CHARACTERISTICS

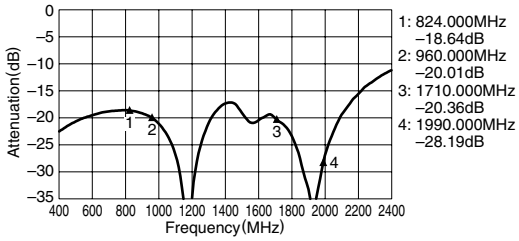
Lo-BAND PORT S21



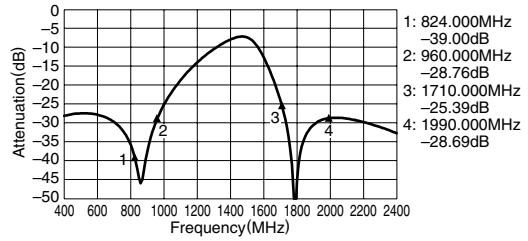
Hi-BAND PORT S31



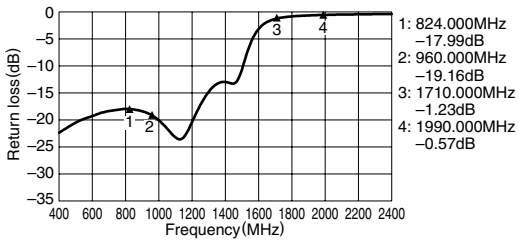
COMMON PORT RETURN LOSS S11



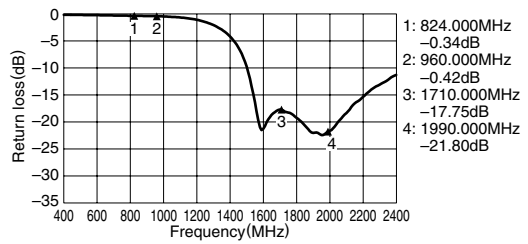
ISOLATION S23



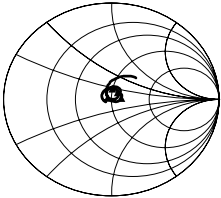
Lo-BAND PORT RETURN LOSS S22



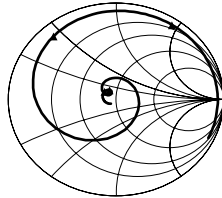
Hi-PORT RETURN LOSS S33



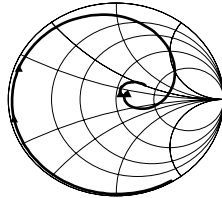
SMITH CHARTS



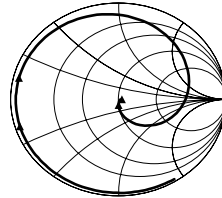
S11



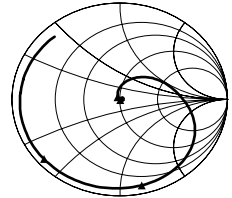
S22



S33



S21



S31