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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Multilayer Diplexers

For GSM850/PCS Tx & Rx

DPX Series

Type: **DPX205850DT-4032A1 (2.0×1.25×0.95mm)**
 DPX201990DT-4114A2 (2.0×1.25×0.95mm)
 DPX201990DT-4014A2 (2.0×1.25×0.95mm)

Issue date: December 2010

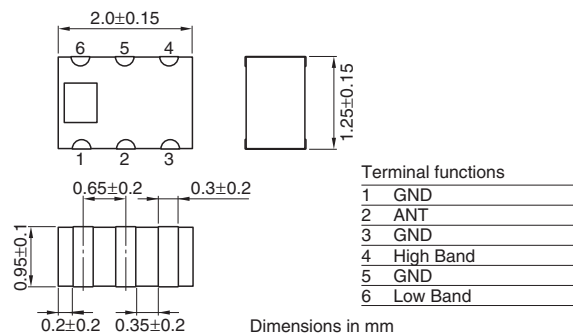
- All specifications are subject to change without notice.
 - Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
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Multilayer Chip Diplexers For GSM850/PCS Tx & Rx

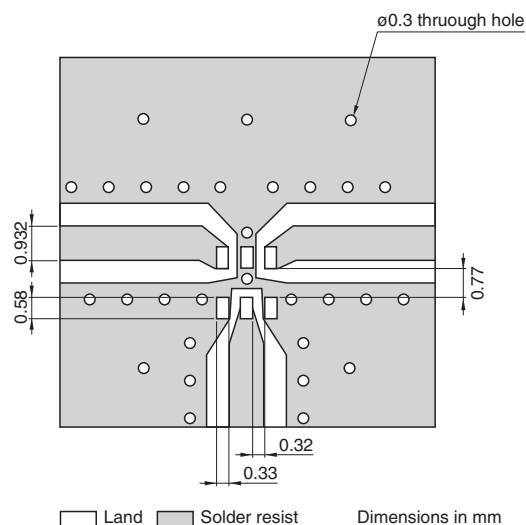
Conformity to RoHS Directive

DPX Series DPX205850DT-4032A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Item	Port	Frequency range		Minimum value	Typical value	Maximum value
Insertion loss	ANT Lo-band	800 to 2170MHz	(dB)	—	1.51	3.0
	ANT Hi-band	2400 to 5850MHz	(dB)	—	1.36	3.0
Attenuation	ANT Lo-band	2400 to 5850MHz	(dB)	8.0	12.7	—
	ANT Hi-band	800 to 2170MHz	(dB)	8.0	11.5	—
Temperature range	Operating		(°C)	-40	—	+85
	Storage		(°C)	-40	—	+85

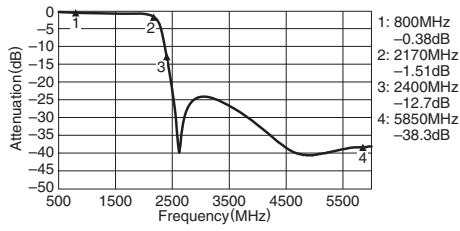
• Ta: +25°C

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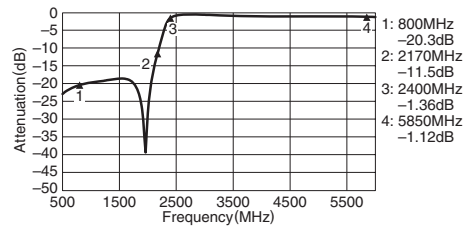
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

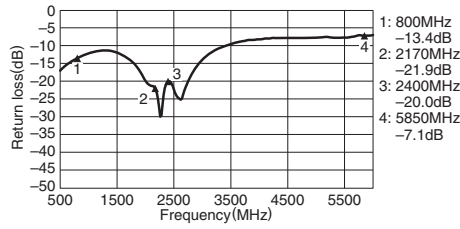
Lo-BAND PORT ATTENUATION S21



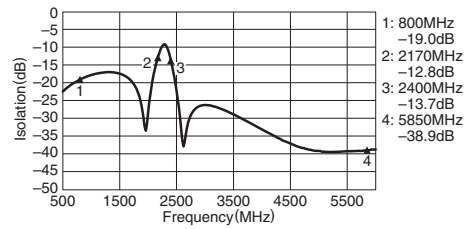
Hi-BAND PORT ATTENUATION S31



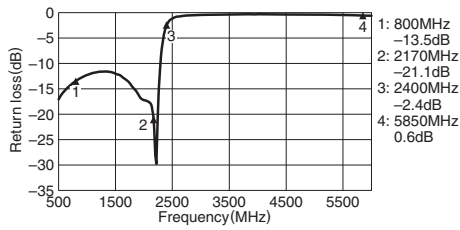
COMMON PORT RETURN LOSS S11



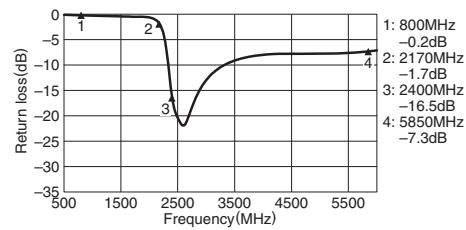
ISOLATION S23



Lo-BAND PORT RETURN LOSS S22



Hi-PORT RETURN LOSS S33

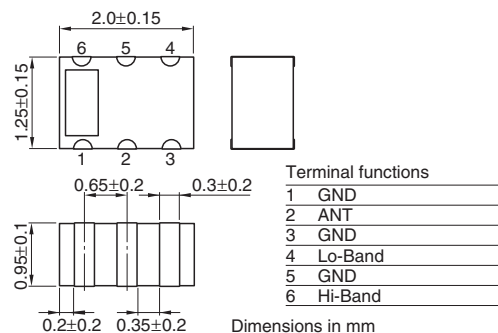


Multilayer Chip Diplexers For GSM850/PCS Tx & Rx

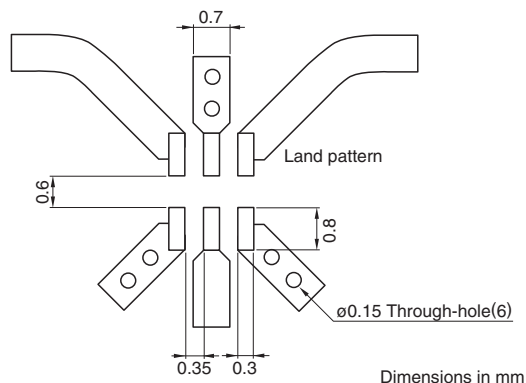
Conformity to RoHS Directive

DPX Series DPX201990DT-4114A2

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



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

ELECTRICAL CHARACTERISTICS

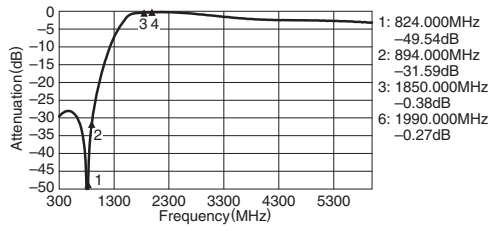
Item	Port	Frequency range	Minimum value	Typical value	Maximum value
Insertion loss	Lo-band	[−40 to +85°C] 824 to 894MHz	(dB) —	—	0.5
	Hi-band	[−40 to +85°C] 1850 to 1990MHz	(dB) —	—	0.55
	Lo-band	[25°C] 824 to 894MHz	(dB) —	—	0.45
	Hi-band	[25°C] 1850 to 1990MHz	(dB) —	—	0.5
Return loss	ANT	824 to 894,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

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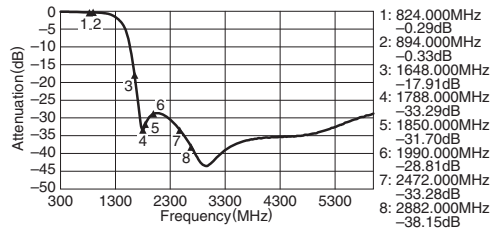
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FREQUENCY CHARACTERISTICS

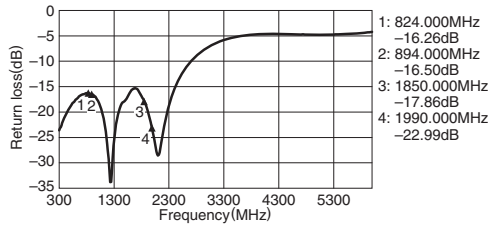
Hi-BAND PORT S21



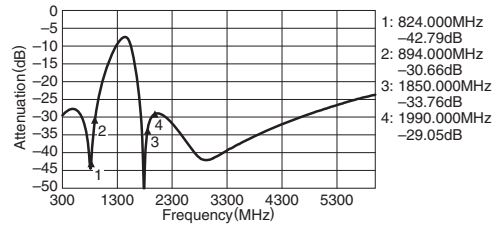
Lo-BAND PORT S31



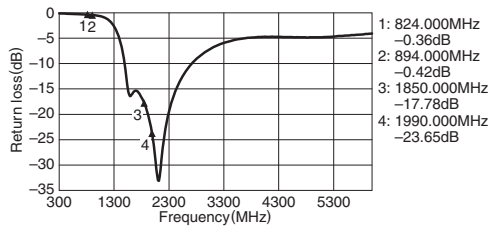
COMMON PORT RETURN LOSS S11



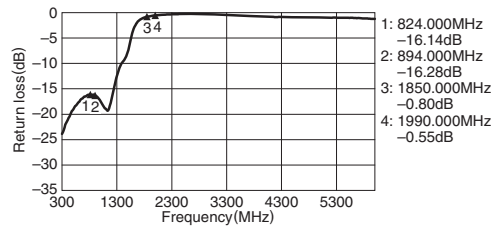
ISOLATION S23



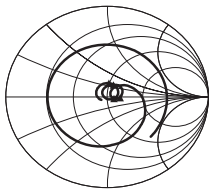
Hi-BAND PORT RETURN LOSS S22



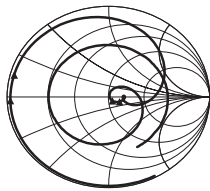
Lo-PORT RETURN LOSS S33



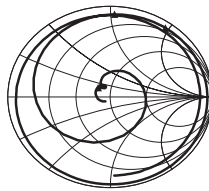
SMITH CHARTS



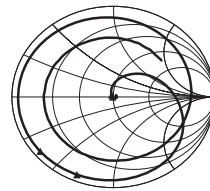
S11



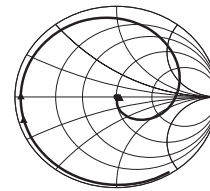
S22



S33



S21



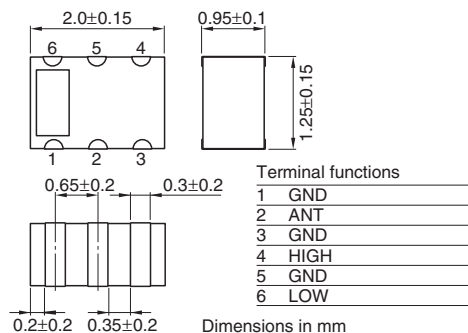
S31

Multilayer Chip Diplexers For AGSM/PCS Tx/Rx

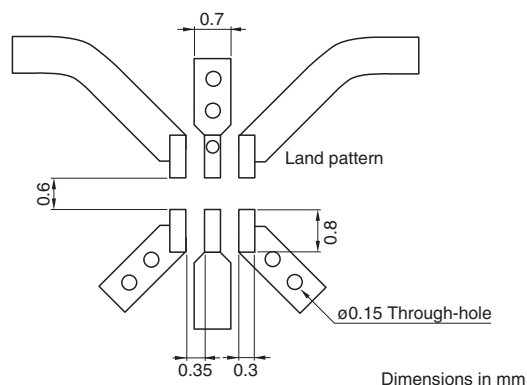
Conformity to RoHS Directive

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

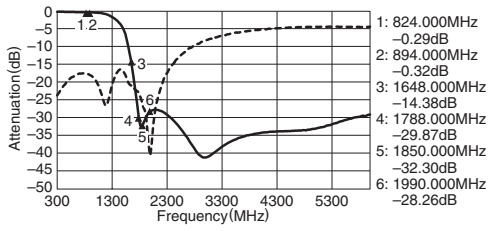
Item	Port	Frequency range	Minimum value	Typical value	Maximum value
Insertion loss	Lo-band	[−40 to +85°C] 824 to 894MHz	(dB) —	—	0.5
	Hi-band	[−40 to +85°C] 1850 to 1990MHz	(dB) —	—	0.55
	Lo-band	[25°C] 824 to 894MHz	(dB) —	—	0.45
	Hi-band	[25°C] 1850 to 1990MHz	(dB) —	—	0.5
Return loss	ANT	824 to 894,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

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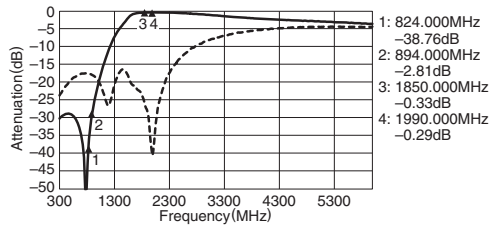
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FREQUENCY CHARACTERISTICS

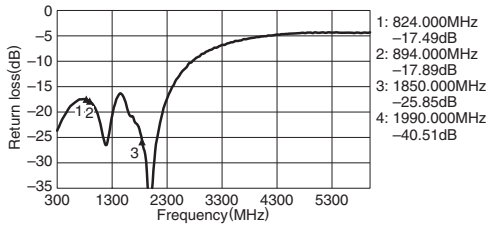
Lo-BAND PORT S21



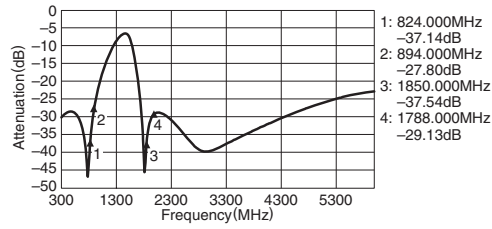
Hi-BAND PORT S31



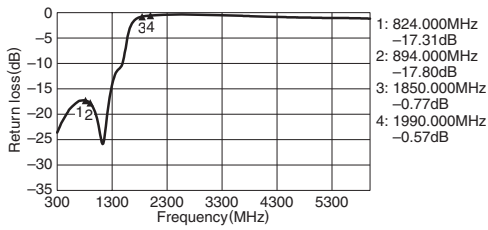
COMMON PORT RETURN LOSS S11



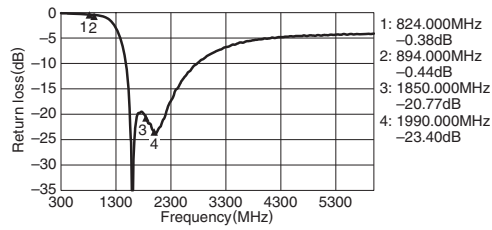
ISOLATION S23



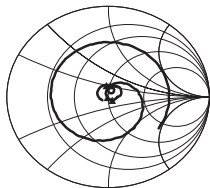
Lo-BAND PORT RETURN LOSS S22



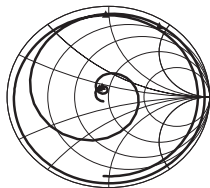
Hi-PORT RETURN LOSS S33



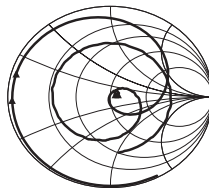
SMITH CHARTS



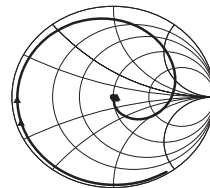
S11



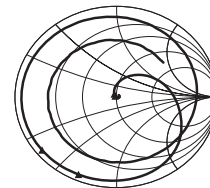
S22



S33



S21



S31