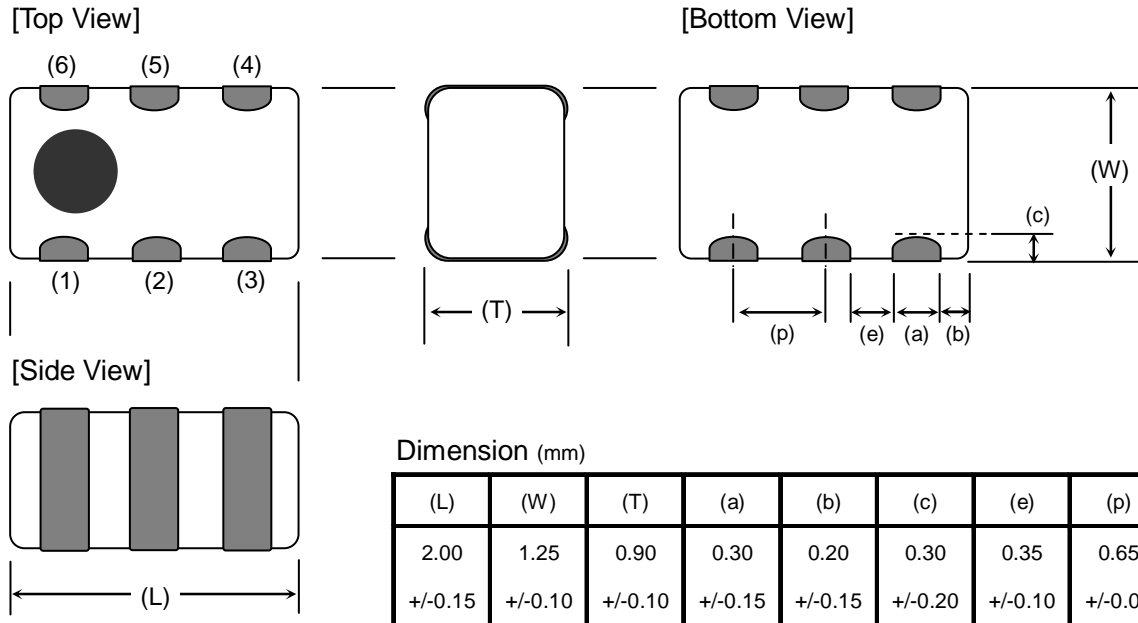


MULTILAYER DIPLEXER SPECIFICATION

P/N: **DPX205850DT-4152B2**

[MECHANICAL CHARACTERISTICS]



Pin Assignment

(1)	(2)	(3)	(4)	(5)	(6)
GND	Common	GND	Low-Band	GND	High-Band

[TEMPERATURE RANGE]

Storage Temperature	-40 ~ +85 °C
Operation Temperature	-40 ~ +85 °C

[ELECTRICAL CHARACTERISTICS]

Low-band

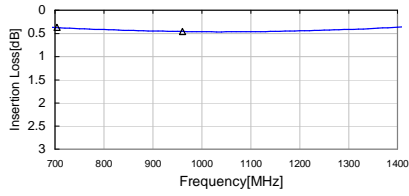
PARAMETER	FREQ (MHz)	Spec.		UNIT
		MIN	MAX	
Insertion Loss(Ta=+25°C)	704 - 960	-	0.65	dB
	1572 - 1578	-	0.55	dB
Insertion Loss(Ta=-40 ~ +85 °C)	704 - 960	-	0.80	dB
	1572 - 1578	-	0.70	dB
Return Loss	704 - 960	12	-	dB
	1572 - 1578	15	-	dB
Attenuation	2400 - 2500	13	-	dB
	2500 - 2690	12	-	dB
	5150 - 5850	22	-	dB

High-band

PARAMETER	FREQ (MHz)	Spec.		UNIT
		MIN	MAX	
Insertion Loss(Ta=+25°C)	2400 - 2500	-	0.45	dB
	2500 - 2690	-	0.45	dB
	5150 - 5850	-	0.40	dB
Insertion Loss(Ta=-40 ~ +85 °C)	2400 - 2500	-	0.60	dB
	2500 - 2690	-	0.60	dB
	5150 - 5850	-	0.55	dB
Return Loss	2400 - 2500	15	-	dB
	2500 - 2690	15	-	dB
	5150 - 5850	10	-	dB
Attenuation	704 - 960	9	-	dB
	1572 - 1578	20	-	dB

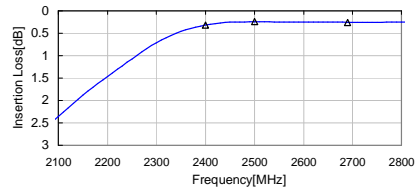
[FREQUENCY RESPONSE]

Low-Band Port Insertion Loss S31

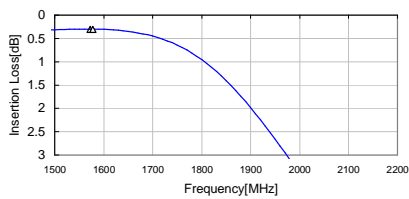


704 MHz	0.37 dB
960 MHz	0.46 dB

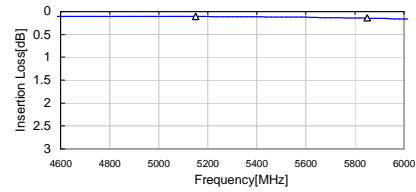
High-Band Port Insertion Loss S21



2400 MHz	0.32 dB
2500 MHz	0.24 dB
2690 MHz	0.26 dB

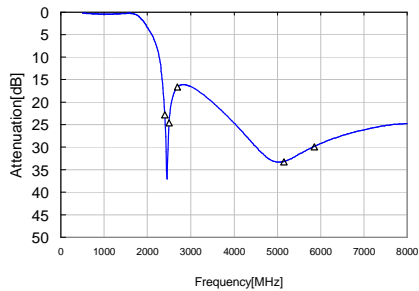


1572 MHz	0.30 dB
1578 MHz	0.30 dB



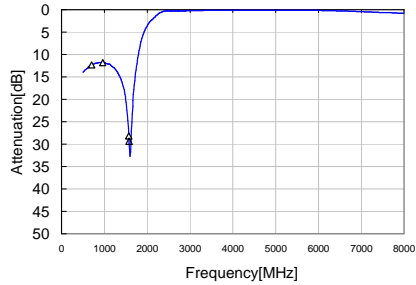
5150 MHz	0.11 dB
5850 MHz	0.14 dB

Low-Band Port Attenuation S31



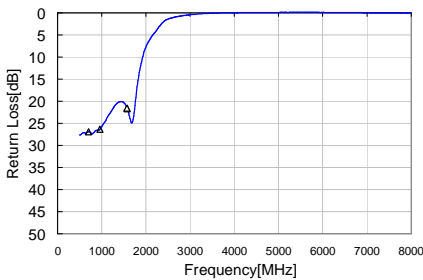
2400 MHz	22.8 dB
2500 MHz	24.6 dB
2690 MHz	16.6 dB
5150 MHz	33.2 dB
5850 MHz	29.9 dB

High-Band Port Attenuation S21



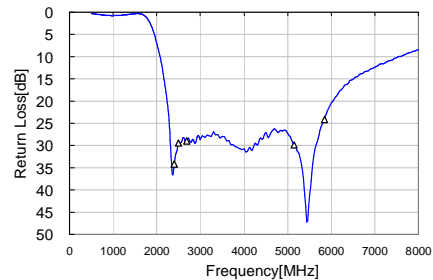
704 MHz	12.4 dB
960 MHz	11.8 dB
1572 MHz	28.2 dB
1578 MHz	29.4 dB

Low-Band Port Return Loss S33



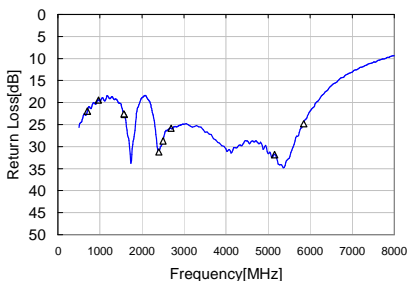
704 MHz	26.9 dB
960 MHz	26.3 dB
1572 MHz	21.5 dB
1578 MHz	21.7 dB

High-Band Port Return Loss S22



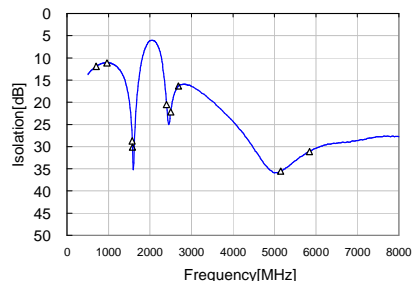
2400 MHz	34.1 dB
2500 MHz	29.4 dB
2690 MHz	28.9 dB
5150 MHz	29.8 dB
5850 MHz	24.1 dB

Common Port Return Loss S11



704 MHz	21.9 dB
960 MHz	19.4 dB
1572 MHz	22.5 dB
1578 MHz	22.7 dB
2400 MHz	31.2 dB
2500 MHz	28.7 dB
2690 MHz	25.8 dB
5150 MHz	31.9 dB
5850 MHz	24.8 dB

Isolation (Low - High) S23



704 MHz	11.9 dB
960 MHz	11.1 dB
1572 MHz	28.7 dB
1578 MHz	30.1 dB
2400 MHz	20.5 dB
2500 MHz	22.2 dB
2690 MHz	16.3 dB
5150 MHz	35.6 dB
5850 MHz	31.1 dB

[LAND PATTERN]

