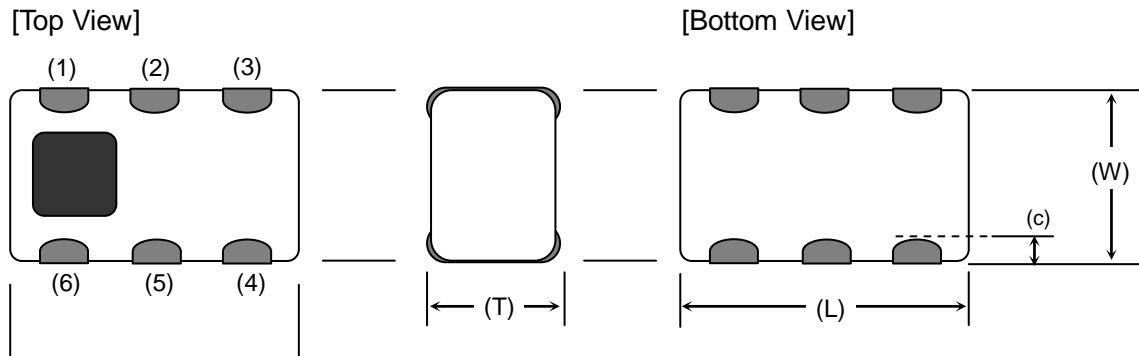


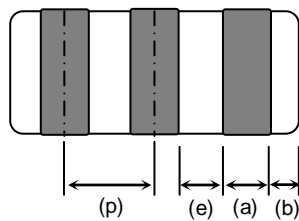
MULTILAYER DIPLEXER SPECIFICATION

P/N: **DPX202700DT-4035B5**

[MECHANICAL CHARACTERISTICS]



[Side View]



Dimension (mm)

(L)	(W)	(T)	(a)	(b)	(c)	(e)	(p)
2.00	1.25	0.90	0.30	0.20	0.30	0.35	0.65
+/-0.15	+/-0.10	+/-0.10	+/-0.15	+/-0.15	+/-0.20	+/-0.10	+/-0.05

Pin Assignment

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

[TEMPERATURE RANGE]

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

[ELECTRICAL CHARACTERISTICS]

Low-band

at Ta=25degC

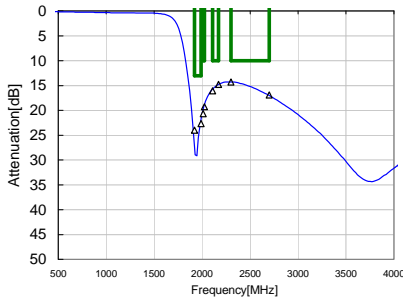
PARAMETER	FREQ (MHz)	SPEC	TYP	UNIT
Insertion Loss(Ta=+25°C)	698 - 960	0.50 max.	0.31	dB
	960 - 1572	0.85 max.	0.57	dB
	1572 - 1578	0.85 max.	0.57	dB
	1605 - 1616	1.10 max.	0.75	dB
Insertion Loss(Ta=-40 ~ +85 °C)	698 - 960	0.60 max.	-	dB
	960 - 1572	1.05 max.	-	dB
	1572 - 1578	1.05 max.	-	dB
	1605 - 1616	1.30 max.	-	dB
VSWR	698 - 960	2.0 max.	1.0	-
	960 - 1572	2.0 max.	1.1	-
	1572 - 1578	2.0 max.	1.1	-
	1605 - 1616	2.0 max.	1.2	-
Attenuation	1920 - 1990	13 min.	22	dB
	2010 - 2025	10 min.	16	dB
	2110 - 2170	10 min.	15	dB
	2300 - 2700	10 min.	14	dB

High-band

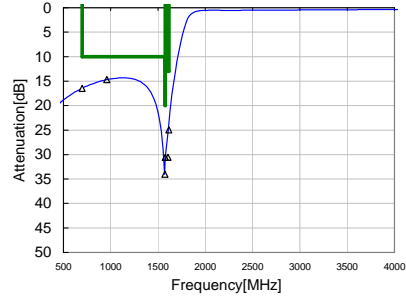
at Ta=25degC

PARAMETER	FREQ (MHz)	SPEC	TYP	UNIT
Insertion Loss(Ta=+25°C)	1920 - 1990	1.10 max.	0.74	dB
	2010 - 2025	0.80 max.	0.54	dB
	2110 - 2170	0.80 max.	0.52	dB
	2300 - 2700	0.80 max.	0.53	dB
Insertion Loss(Ta=-40 ~ +85 °C)	1920 - 1990	1.30 max.	-	dB
	2010 - 2025	1.00 max.	-	dB
	2110 - 2170	1.00 max.	-	dB
	2300 - 2700	1.00 max.	-	dB
VSWR	1920 - 1990	2.0 max.	1.3	-
	2010 - 2025	2.0 max.	1.3	-
	2110 - 2170	2.0 max.	1.5	-
	2300 - 2700	2.2 max.	1.7	-
Attenuation	698 - 960	10 min.	14	dB
	960 - 1572	10 min.	14	dB
	1572 - 1578	18 min.	30	dB
	1605 - 1616	13 min.	25	dB

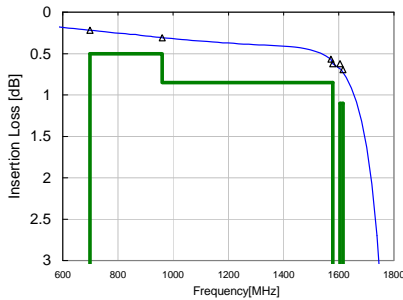
[FREQUENCY RESPONSE]

Low Band Port Attenuation S21


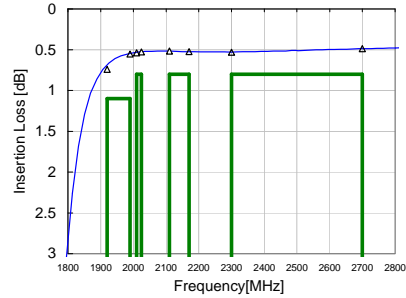
Attenuation	Frequency [MHz]	Value [dB]
1920 MHz	23.99	dB
1990 MHz	22.66	dB
2010 MHz	20.68	dB
2025 MHz	19.24	dB
2110 MHz	16.37	dB
2170 MHz	14.80	dB
2300 MHz	14.28	dB
2700 MHz	16.90	dB

High Band Port Attenuation S31


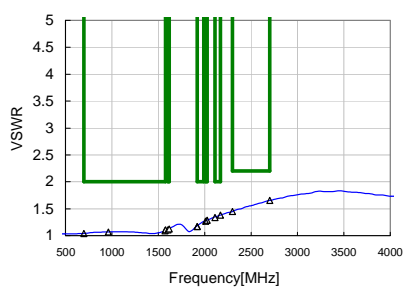
Attenuation	Frequency [MHz]	Value [dB]
698 MHz	16.47	dB
960 MHz	14.70	dB
1572 MHz	33.98	dB
1578 MHz	30.58	dB
1605 MHz	30.58	dB
1616 MHz	24.99	dB

Low Band Port Insertion Loss S21


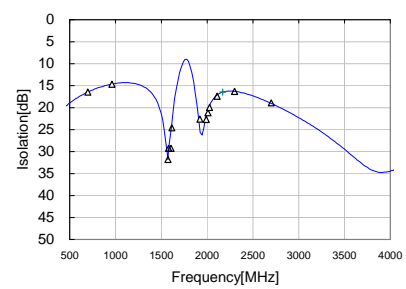
Insertion Loss	Frequency [MHz]	Value [dB]
698 MHz	0.22	dB
960 MHz	0.31	dB
1572 MHz	0.57	dB
1578 MHz	0.62	dB
1605 MHz	0.62	dB
1616 MHz	0.69	dB

High Band Port Insertion Loss S31


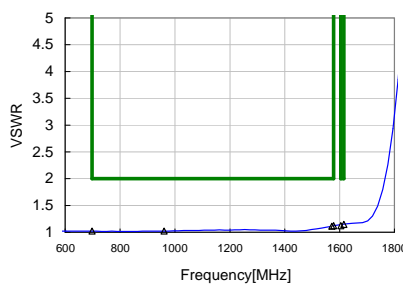
Insertion Loss	Frequency [MHz]	Value [dB]
1920 MHz	0.74	dB
1990 MHz	0.55	dB
2010 MHz	0.54	dB
2025 MHz	0.53	dB
2110 MHz	0.52	dB
2170 MHz	0.52	dB
2300 MHz	0.53	dB
2700 MHz	0.49	dB

Common Port VSWR S11


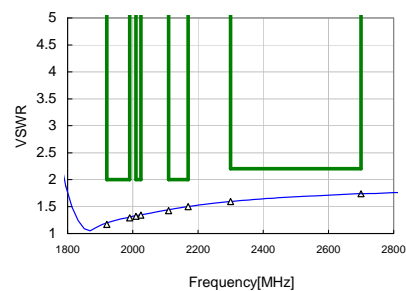
VSWR	Frequency [MHz]	Value [dB]
698 MHz	1.04	dB
960 MHz	1.07	dB
1572 MHz	1.09	dB
1578 MHz	1.10	dB
1605 MHz	1.10	dB
1616 MHz	1.12	dB
1920 MHz	1.17	dB
1990 MHz	1.26	dB
2010 MHz	1.27	dB
2025 MHz	1.28	dB
2110 MHz	1.34	dB
2170 MHz	1.38	dB
2300 MHz	1.45	dB
2700 MHz	1.65	dB

Isolation S23


Isolation [dB]	Frequency [MHz]	Value [dB]
698 MHz	16.4	dB
960 MHz	14.6	dB
1572 MHz	31.8	dB
1578 MHz	29.2	dB
1605 MHz	29.2	dB
1616 MHz	24.6	dB
1920 MHz	22.6	dB
1990 MHz	22.7	dB
2010 MHz	21.2	dB
2025 MHz	20.0	dB
2110 MHz	17.4	dB
2170 MHz	16.5	dB
2300 MHz	16.3	dB
2700 MHz	18.9	dB

Low Band Port VSWR S22


VSWR	Frequency [MHz]	Value [dB]
698 MHz	1.02	dB
960 MHz	1.02	dB
1572 MHz	1.11	dB
1578 MHz	1.13	dB
1605 MHz	1.13	dB
1616 MHz	1.15	dB

High Band Port VSWR S33


VSWR	Frequency [MHz]	Value [dB]
1920 MHz	1.17	dB
1990 MHz	1.29	dB
2010 MHz	1.32	dB
2025 MHz	1.34	dB
2110 MHz	1.42	dB
2170 MHz	1.49	dB
2300 MHz	1.59	dB
2700 MHz	1.73	dB

[LAND PATTERN]

