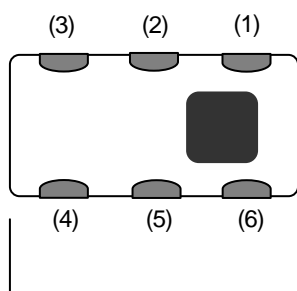


# 1608 TYPE MULTILAYER DIPLEXER

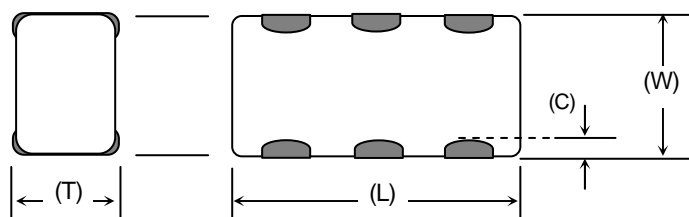
P/N: **DPX165900DT-8025A1**

## MECHANICAL DIMENSIONS

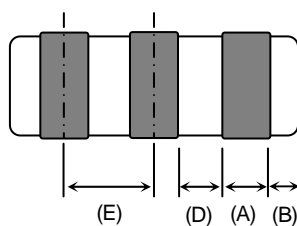
[Top View]



[Bottom View]



[Side View]



Dimension (mm)

(L)	(W)	(T)	(A)	(B)	(C)	(D)	(E)
1.60	0.80	0.60	0.30	0.10	0.15	0.25	0.55
+/-0.15	+/-0.15	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10

PIN Configuration

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

## TEMPERATURE RANGE

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

## ELECTRICAL CHARACTERISTICS (Ta= +25 ± 5 °C)

### Low-Band

Parameter	Freq. (MHz)	Specification	Typ.	Unit
Insertion Loss	2400-2500	0.6 max.	0.36	dB
Attenuation	4800-5000	18 min.	23.4	dB
	7200-7500	18 min.	25.9	dB

### High-Band

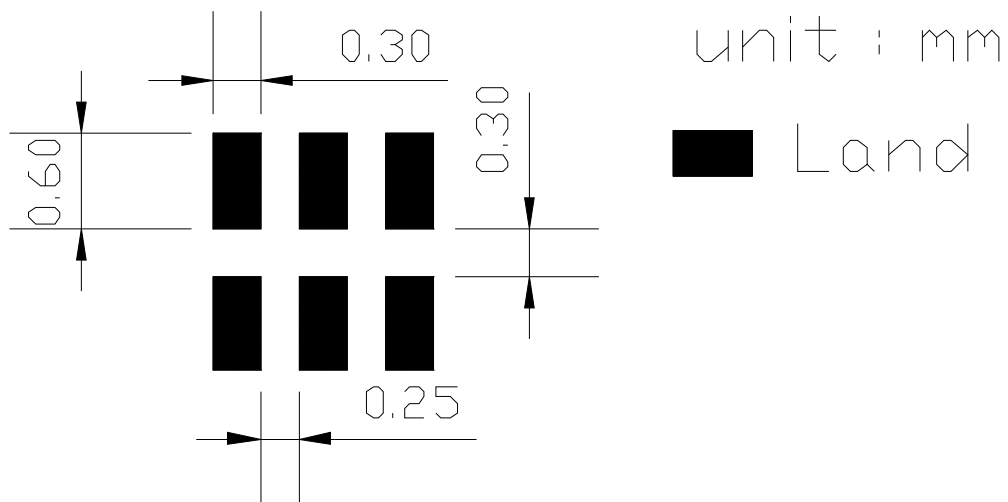
Parameter	Freq. (MHz)	Specification	Typ.	Unit
Insertion Loss	5100-5900	1.4 max	0.83	dB
Attenuation	1800-2500	20 min.	30.8	dB
	3700-3900	20 min.	29.5	dB
	9800-11900	10 min.	26.2	dB

### Common

Parameter	Freq. (MHz)	Specification	Typ.	Unit
VSWR	2400-2500	2.0 max.	1.17	-
	5100-5900	2.3 max.	1.71	-

We recommend to terminate for all port with 50ohm at all times.

## RECOMMENDED LAND PATTERN



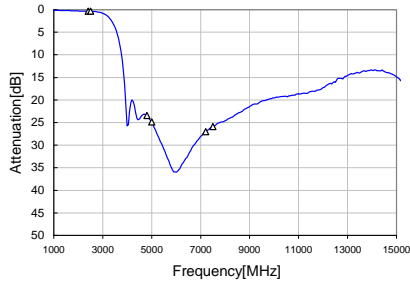
Note: All specifications are subject to change and are not guaranteed.

# FREQUENCY CHARACTERISTICS

DPX165900DT-8025A1 Sample Data

Low band-Port

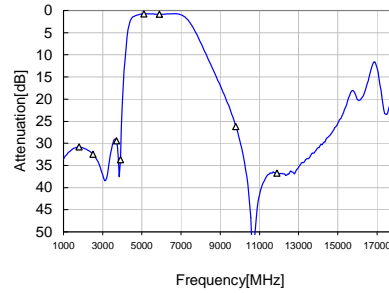
S21



Insertion Loss	
2400 MHz	0.34 dB
2500 MHz	0.36 dB
Attenuation	
4800 MHz	23.44 dB
5000 MHz	24.90 dB
7200 MHz	27.00 dB
7500 MHz	25.91 dB

High band-Port

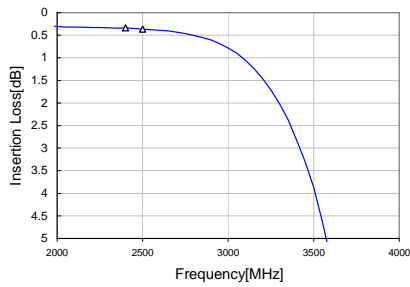
S31



Insertion Loss	
5100 MHz	0.74 dB
5900 MHz	0.83 dB
Attenuation	
1800 MHz	30.82 dB
2500 MHz	32.46 dB
3700 MHz	29.45 dB
3900 MHz	33.67 dB
9800 MHz	26.19 dB
11900 MHz	36.72 dB

Low band-Port

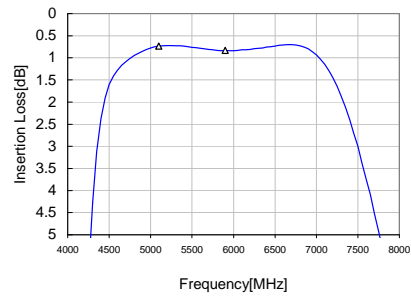
S21



Insertion Loss	
2400 MHz	0.34 dB
2500 MHz	0.36 dB

High band-Port

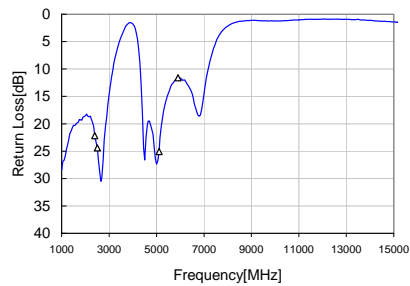
S31



Insertion Loss	
5100 MHz	0.74 dB
5900 MHz	0.83 dB

Common Port Return Loss

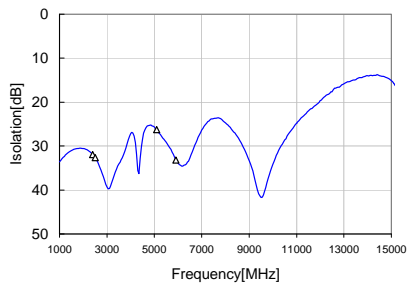
S11



2400 MHz	22.17
2500 MHz	24.38
5100 MHz	25.07
5900 MHz	11.59

Isolation

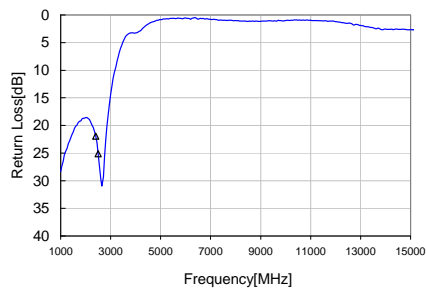
S23



2400 MHz	32.0
2500 MHz	32.6
5100 MHz	26.2
5900 MHz	33.2

Low band-Port Return Loss

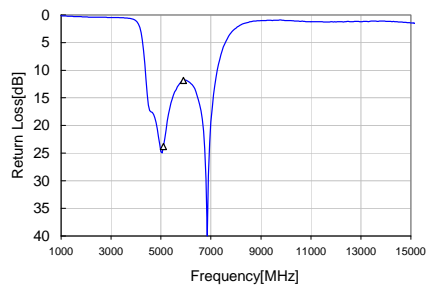
S22



2400 MHz	21.93
2500 MHz	25.12

High band-Port Return Loss

S33



5100 MHz	23.81
5900 MHz	11.85