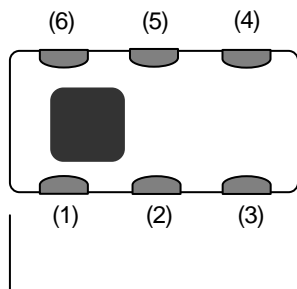


1608 TYPE MULTILAYER DIPLEXER

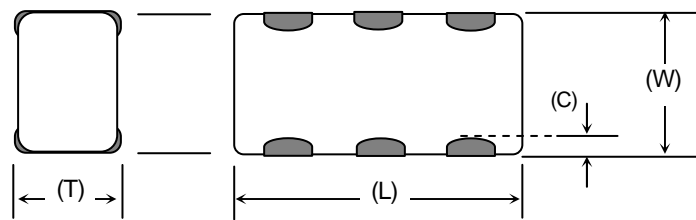
P/N: **DPX165950DT-8026A1**

MECHANICAL DIMENSIONS

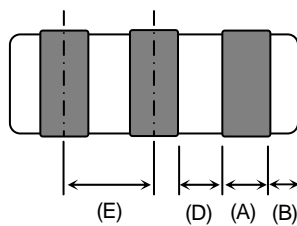
[Top View]



[Bottom View]



[Side View]



Dimension (mm)

(L)	(W)	(T)	(A)	(B)	(C)	(D)	(E)
1.60 ±0.15	0.80 ±0.15	0.60 ±0.10	0.30 ±0.10	0.10 ±0.10	0.15 ±0.10	0.25 ±0.1	0.55 ±0.10

Pin Configuration

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

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	2400-2496	0.6 max	0.44	dB
VSWR	2400-2500	2.0 max	1.20	-

High-Band

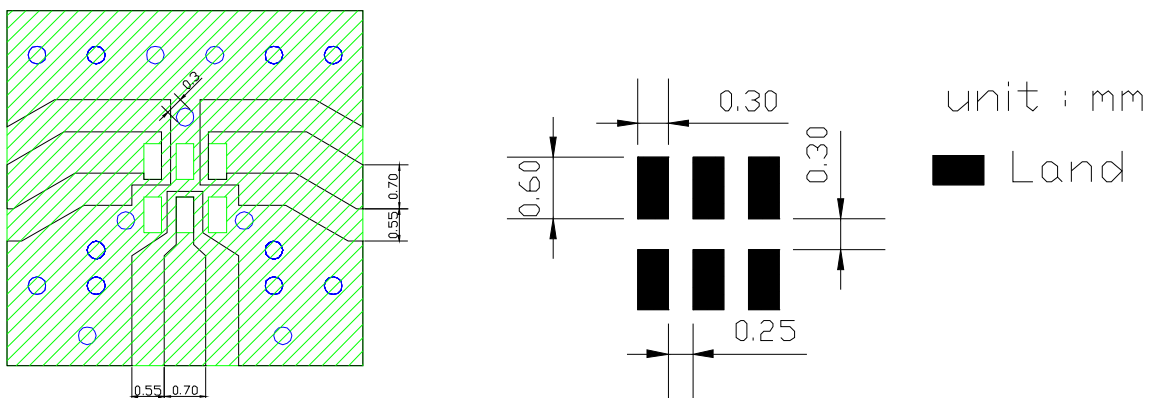
Parameter	Freq. (MHz)	Specification	Typ.	Unit
Insertion Loss	4900-5950	1.4 max	0.67	dB
Attenuation	30-2700	28 min	34.4	dB
	9800-11900	10 min	21.6	dB
	14700-17850	5 min	14.6	dB
VSWR	4900-5950	2.0 max	1.29	-

Common

Parameter	Freq. (MHz)	Specification	Typ.	Unit
Isolation (Low-High)	30-2700	28 min	34.6	dB
	4900-5950	26 min	33.2	dB
VSWR	2400-2500	2.0 max	1.17	-
	4900-5950	2.0 max	1.28	-

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

RECOMMENDED LAND PATTERN



Note:

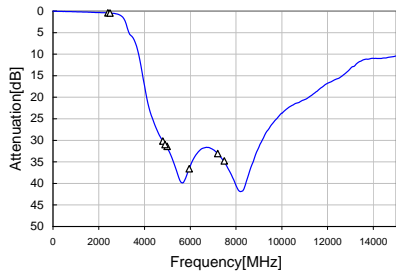
Line width be designed to match 50 Ohm characteristic impedance, depending on PCB material and thickness.

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

FREQUENCY CHARACTERISTICS

DPX165950DT-8026A1 Sample Data

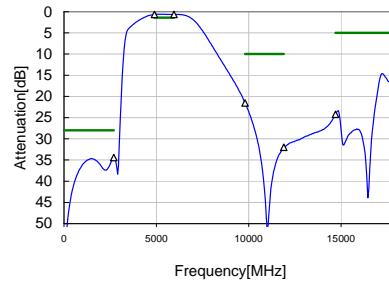
Low band-Port



Insertion Loss	
2400 MHz	0.43 dB
2496 MHz	0.44 dB

Attenuation	
4800 MHz	30.18 dB
4992 MHz	31.39 dB
7200 MHz	33.06 dB
7488 MHz	34.77 dB
4900 MHz	30.98 dB
5950 MHz	36.59 dB

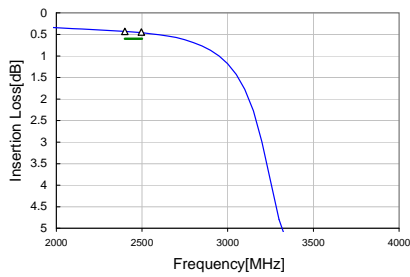
High band-Port



Insertion Loss	
4900 MHz	0.67 dB
5950 MHz	0.64 dB

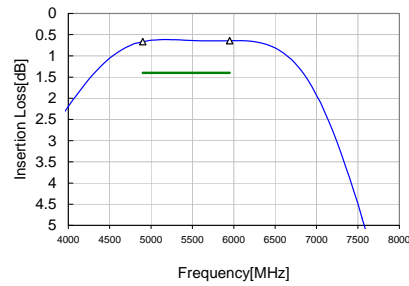
Attenuation	
30 MHz	79.51 dB
2700 MHz	34.40 dB
9800 MHz	21.55 dB
11900 MHz	32.00 dB
14700 MHz	24.21 dB
17850 MHz	17.83 dB

Low band-Port



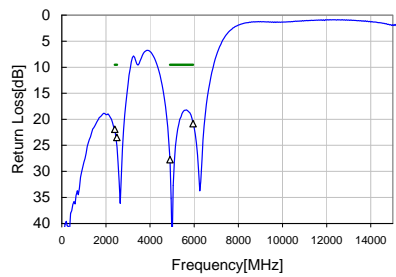
Insertion Loss	
2400 MHz	0.43 dB
2496 MHz	0.44 dB

High band-Port



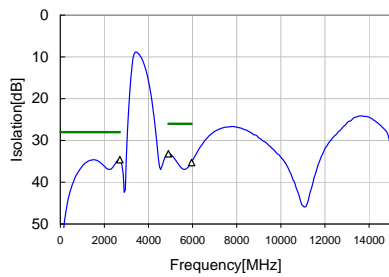
Insertion Loss	
4900 MHz	0.67 dB
5950 MHz	0.64 dB

Common Port Return Loss



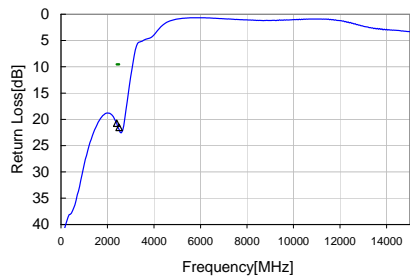
2400 MHz	21.92
2496 MHz	23.49
4900 MHz	27.75
5950 MHz	20.84

Isolation



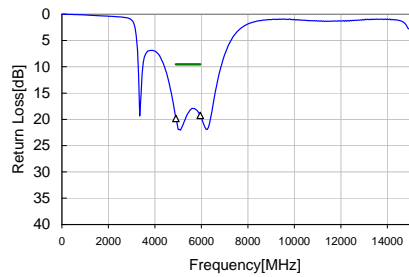
30 MHz	81.4
2700 MHz	34.6
4900 MHz	33.2
5950 MHz	35.3

Low band-Port Return Loss



2400 MHz	20.72
2496 MHz	21.53

High band-Port Return Loss



4900 MHz	19.83
5950 MHz	19.24