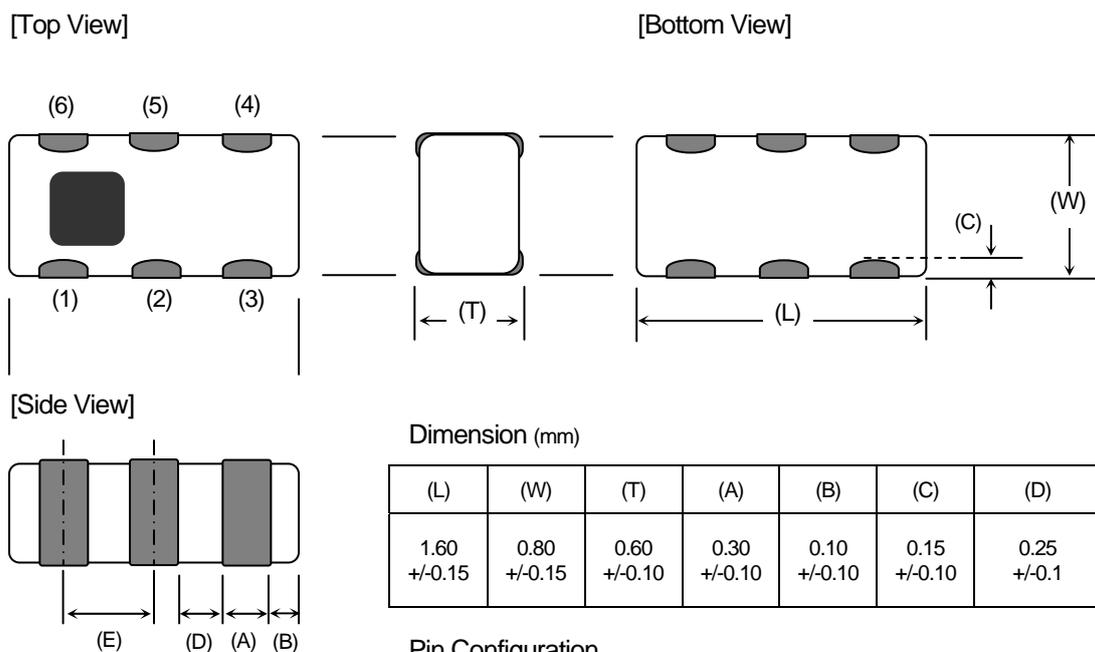


1608 TYPE MULTILAYER DIPLEXER

P/N: **DPX165950DT-8126A1**

MECHANICAL DIMENSIONS



Pin Configuration

(1)	(2)	(3)	(4)	(5)	(6)
GND	Common	GND	Low-Band	GND	High-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	0.39	dB
VSWR	2400-2500	2.0 max	1.18	-

High-Band

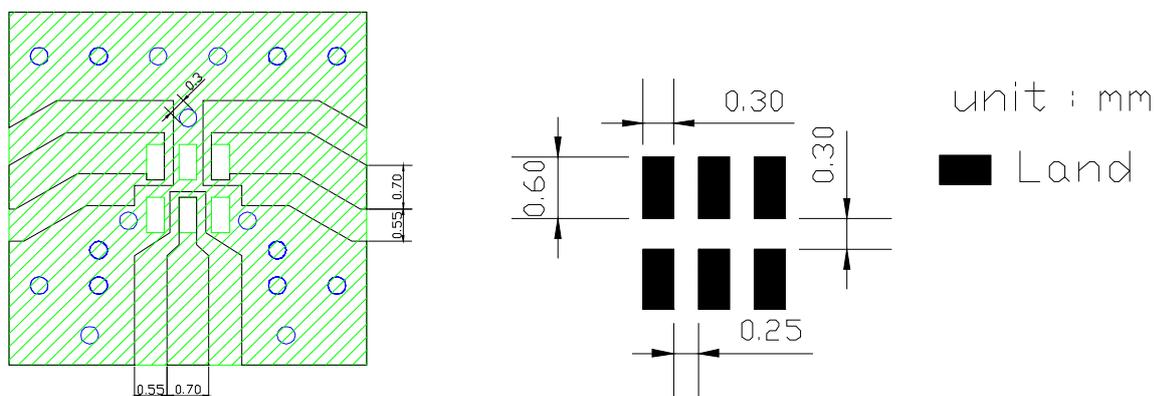
Parameter	Freq. (MHz)	Specification	Typ.	Unit
Insertion Loss	4900-5950	1.4 max	0.78	dB
Attenuation	30-2700	28 min	34.9	dB
	9800-11900	10 min	21.6	dB
	14700-17850	5 min	14.4	dB
VSWR	4900-5950	2.0 max	1.35	-

Common

Parameter	Freq. (MHz)	Specification	Typ.	Unit
Isolation (Low-High)	30-2700	28 min	34.2	dB
	4900-5950	26 min	32.9	dB
VSWR	2400-2500	2.0 max	1.18	-
	4900-5950	2.0 max	1.21	-

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

RECOMMENDED LAND PATTERN



Note:

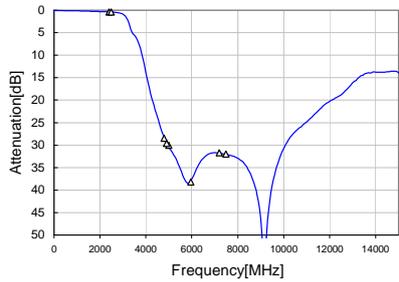
Line width be designed to match 50 Ohm characteristic impedance, depending on PCB material and thickness.

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

FREQUENCY CHARACTERISTICS

DPX165950DT-8126A1 Sample Data

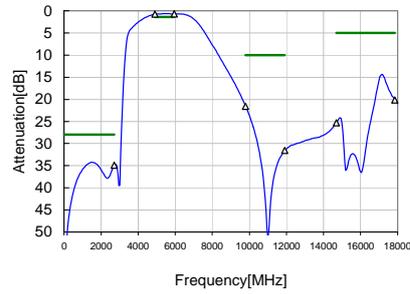
Low band-Port



Insertion Loss	
2400 MHz	0.38 dB
2496 MHz	0.39 dB

Attenuation	
4800 MHz	28.45 dB
4992 MHz	30.03 dB
7200 MHz	31.75 dB
7488 MHz	32.01 dB
4900 MHz	29.59 dB
5950 MHz	38.16 dB

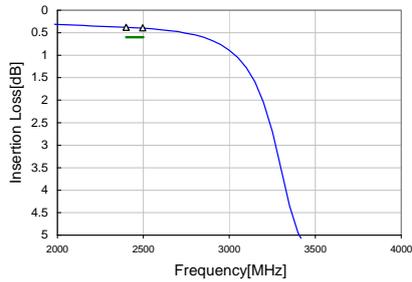
High band-Port



Insertion Loss	
4900 MHz	0.78 dB
5950 MHz	0.66 dB

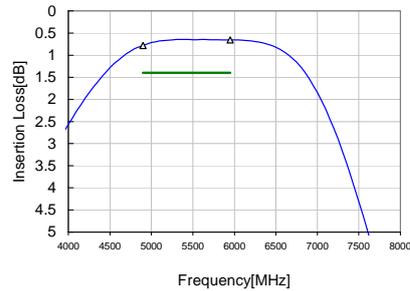
Attenuation	
30 MHz	82.42 dB
2700 MHz	34.93 dB
9800 MHz	21.57 dB
11900 MHz	31.57 dB
14700 MHz	25.28 dB
17850 MHz	20.13 dB

Low band-Port



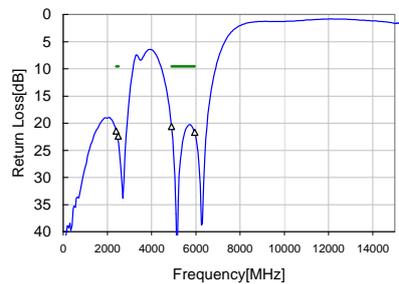
Insertion Loss	
2400 MHz	0.38 dB
2496 MHz	0.39 dB

High band-Port



Insertion Loss	
4900 MHz	0.78 dB
5950 MHz	0.66 dB

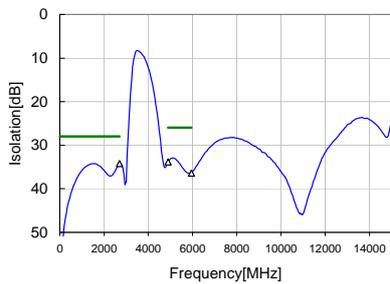
Common Port Return Loss



2400 MHz	21.45
2496 MHz	22.42

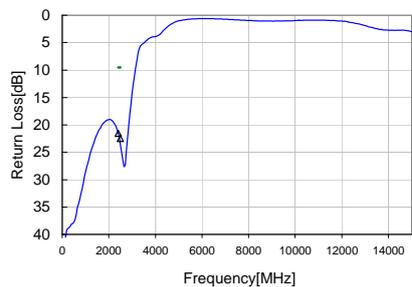
4900 MHz	20.59
5950 MHz	21.70

Isolation



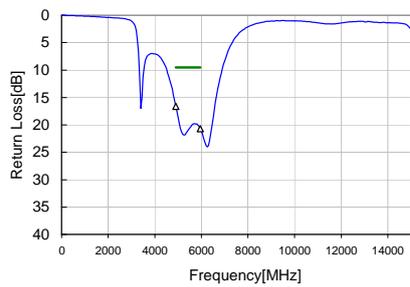
30 MHz	86.1 dB
2700 MHz	34.2 dB
4900 MHz	33.9 dB
5950 MHz	36.4 dB

Low band-Port Return Loss



2400 MHz	21.56
2496 MHz	22.52

High band-Port Return Loss



4900 MHz	16.62
5950 MHz	20.70