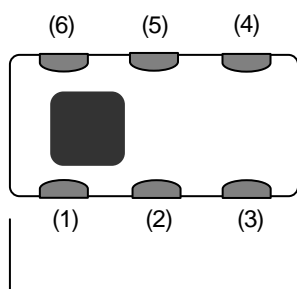


# 1608 TYPE MULTILAYER DIPLEXER

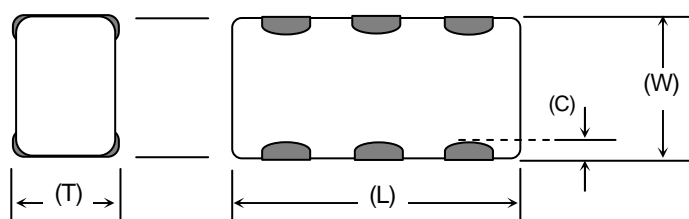
P/N: **DPX165850DT-8040A3**

## MECHANICAL DIMENSIONS

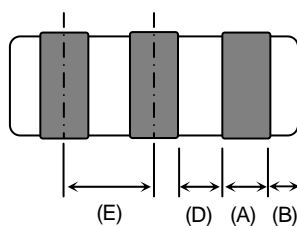
[Top View]



[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	+/-0.1	+/-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

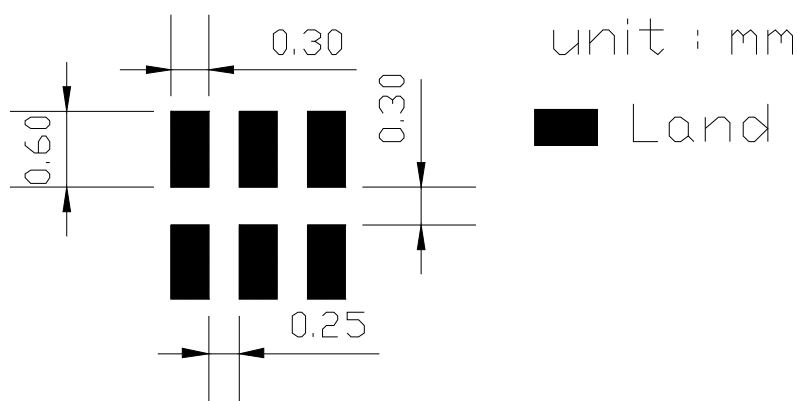
Parameter	Freq. (MHz)	Specification	Typ.	Unit
Insertion Loss	2400-2500	0.75 max.	0.59	dB
Attenuation	4800-5000	23 min.	29	dB
	7200-7500	30 min.	49	dB

### High-Band

Parameter	Freq. (MHz)	Specification	Typ.	Unit
Insertion Loss	5150-5850	1.90 max.	1.48	dB
Attenuation	2400-2500	25 min.	34	dB
	3400-3900	15 min.	20	dB
	3600	19 min.	30	dB
	7200	19 min.	27	dB
	7250-7550	23 min.	29	dB
	10600-11700	30 min.	42	dB
	15300-16200	20 min.	27	dB

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

## RECOMMENDED LAND PATTERN

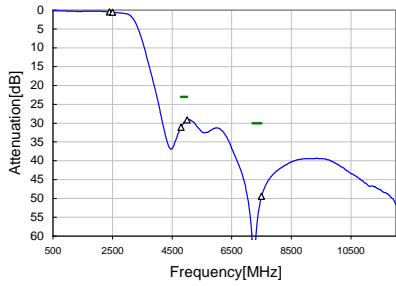


**Note:**

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

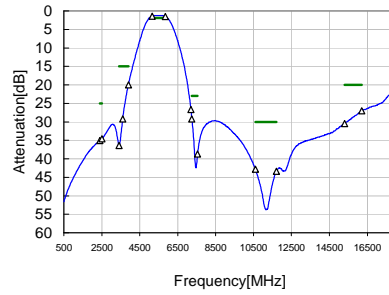
# FREQUENCY CHARACTERISTICS (Sample Data)

Low band-Port



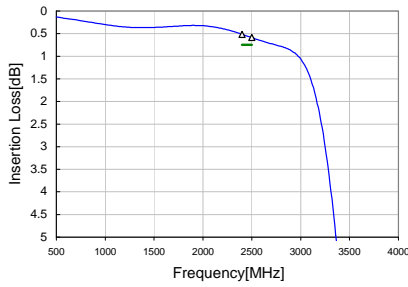
Attenuation	
4800 MHz	31.08 dB
5000 MHz	29.19 dB
7200 MHz	64.28 dB
7500 MHz	49.41 dB

High band-Port



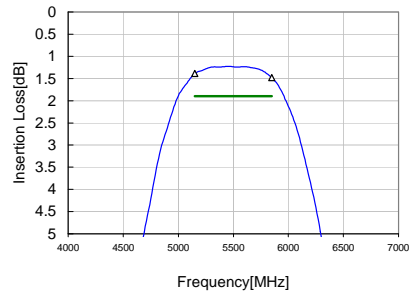
Attenuation	
2400 MHz	35.04 dB
2500 MHz	34.54 dB
3400 MHz	36.35 dB
3800 MHz	29.26 dB
3900 MHz	19.97 dB
7200 MHz	26.67 dB
7250 MHz	29.20 dB
7550 MHz	38.71 dB
10600 MHz	42.84 dB
11700 MHz	43.40 dB
15300 MHz	30.42 dB
16200 MHz	27.01 dB

Low band-Port



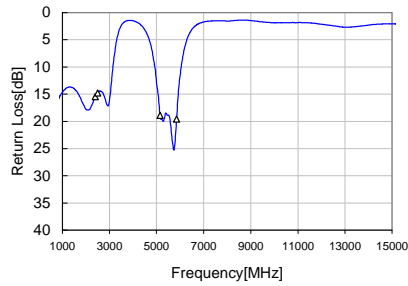
Insertion Loss	
2400 MHz	0.52 dB
2500 MHz	0.59 dB

High band-Port



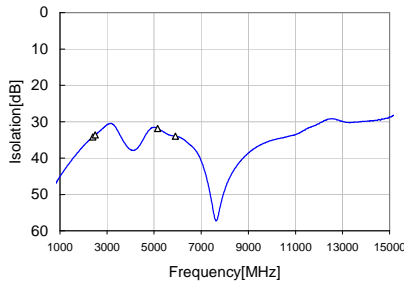
Insertion Loss	
5150 MHz	1.39 dB
5850 MHz	1.48 dB

Common Port Return Loss



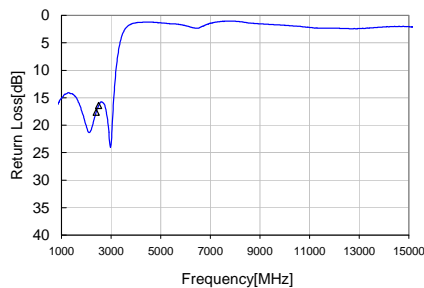
2400 MHz	15.47 dB
2500 MHz	14.78 dB
5150 MHz	18.89 dB
5850 MHz	19.55 dB

Isolation



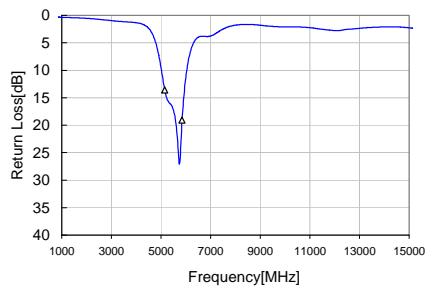
2400 MHz	34.2 dB
2500 MHz	33.6 dB
5150 MHz	31.9 dB
5900 MHz	34.0 dB

Low band-Port Return Loss



2400 MHz	17.61 dB
2500 MHz	16.42 dB

High band-Port Return Loss



5150 MHz	13.57 dB
5850 MHz	19.07 dB

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