

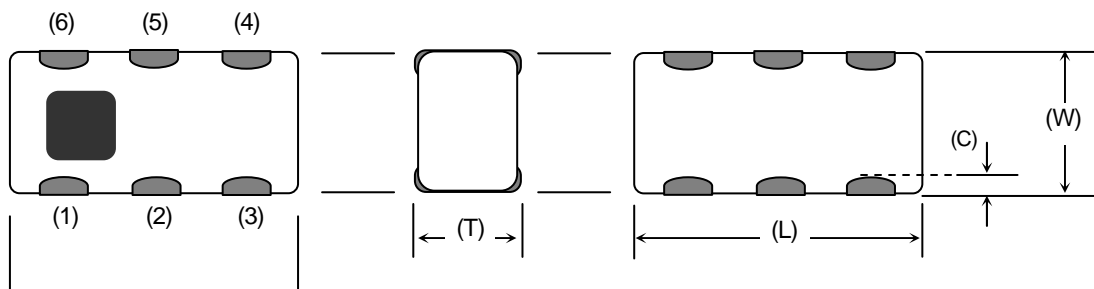
1608 TYPE MULTILAYER DIPLEXER

P/N: **DPX162170DT-8122B1**

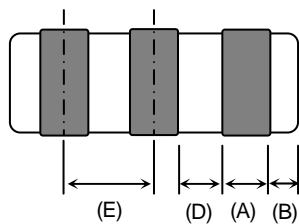
MECHANICAL DIMENSIONS

[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 ±0.10	0.55 ±0.10

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 (Ta=+25 °C)	824 - 960	0.5 max.	0.31	dB
Insertion Loss (Ta=-40~+85°C)	824 - 960	0.65 max.	-	dB
Attenuation	1710 - 2170	15 min.	19.4	dB
VSWR	824 - 960	1.5 max.	1.19	-

High-Band

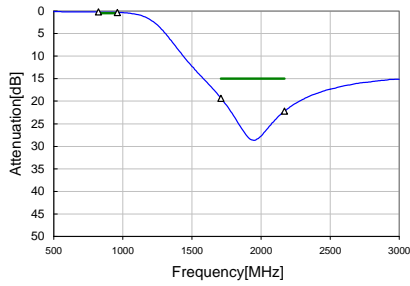
Parameter	Freq. (MHz)	Specification	Typ.	Unit
Insertion Loss (Ta=+25 °C)	1710-1990	0.70 max.	0.55	dB
	2110-2170	0.60 max.	0.33	dB
Insertion Loss (Ta=-40~+85°C)	1710-1990	0.90 max.	-	dB
	2110-2170	0.80 max.	-	dB
Attenuation	704 - 960	20 min.	24.2	dB
VSWR	1710 - 1990	1.7 max.	1.37	-
	2110 - 2170	1.7 max.	1.23	-

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

FREQUENCY CHARACTERISTICS

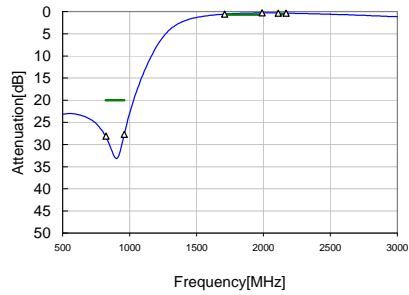
DPX162170DT-8122B1 Sample Data

Low-Band Port



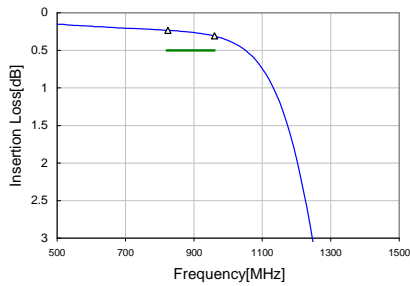
Attenuation	
1710 MHz	19.35 dB
2170 MHz	22.18 dB

High-Band Port



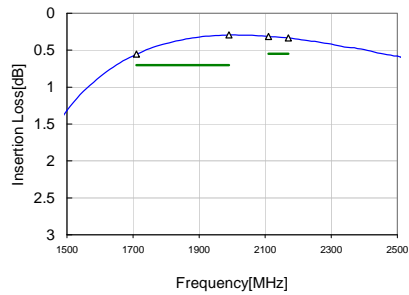
Attenuation	
824 MHz	28.11 dB
960 MHz	27.65 dB

Low-Band Port



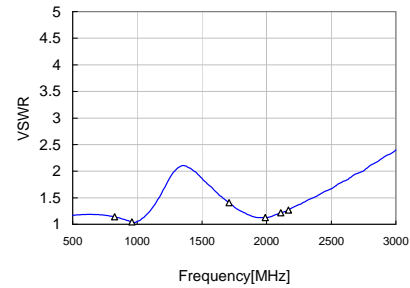
Insertion Loss	
824 MHz	0.23 dB
960 MHz	0.31 dB

High-Band Port



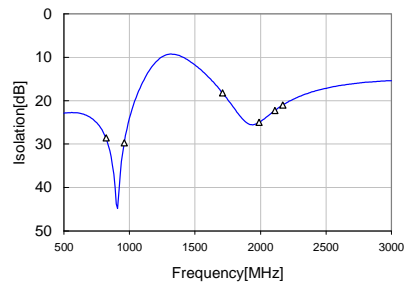
Insertion Loss	
1710 MHz	0.55 dB
1990 MHz	0.29 dB
2110 MHz	0.31 dB
2170 MHz	0.33 dB

Common Port VSWR



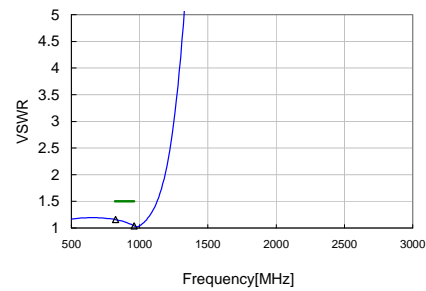
824 MHz	1.14
960 MHz	1.04
1710 MHz	1.41
1990 MHz	1.13
2110 MHz	1.22
2170 MHz	1.27

Isolation



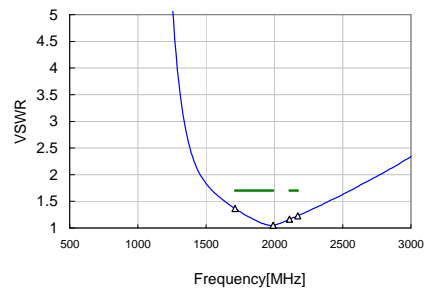
824 MHz	28.6 dB
960 MHz	29.7 dB
1710 MHz	18.2 dB
1990 MHz	25.0 dB
2110 MHz	22.3 dB
2170 MHz	21.0 dB

Low-Band Port VSWR



824 MHz	1.16
960 MHz	1.04

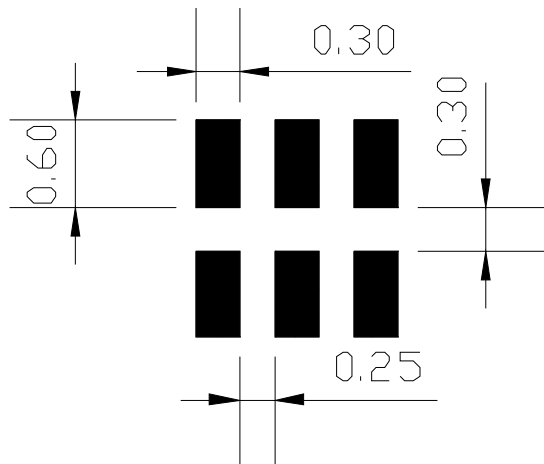
High-Port VSWR



1710 MHz	1.37
1990 MHz	1.05
2110 MHz	1.16
2170 MHz	1.23

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

RECOMMENDED LAND PATTERN



unit : mm

■ Land