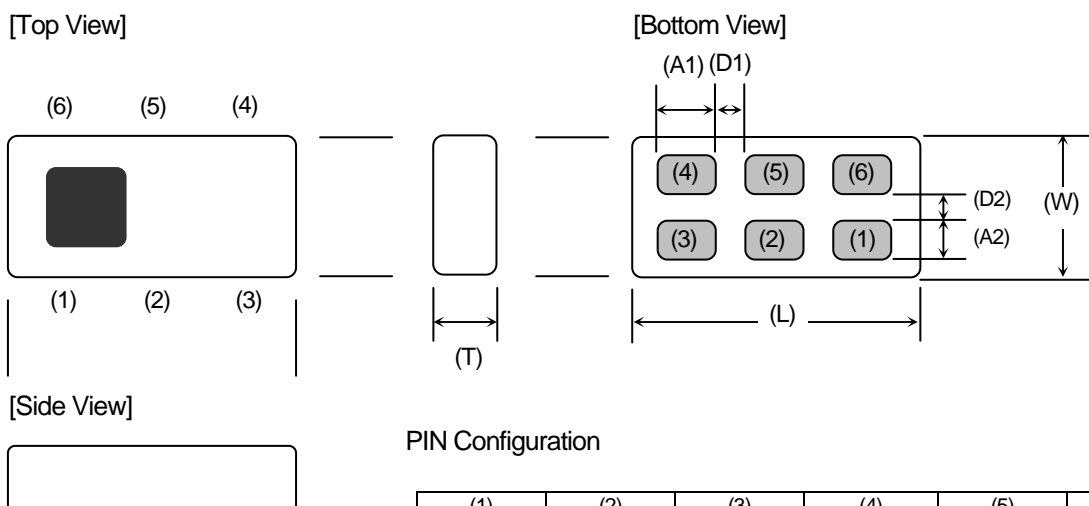


1608 TYPE MULTILAYER DIPLEXER

P/N: **DPX165950DT-8030A1**

MECHANICAL DIMENSIONS



Dimension (mm)

(L)	(W)	(T)	(A1)	(D1)	(A2)	(D2)
1.60 +/-0.10	0.80 +/-0.15	0.40 max.	0.35 +/-0.05	0.22 +/-0.05	0.225 +/-0.05	0.22 +/-0.05

Note:

These samples are marked with trial sample identification (several mark).

In mass production, this sample marking will be changed to show in the TDK full specification.



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	0.80 max	0.36	dB
Attenuation	4800-6000	20 min	31	dB
	7200-7500	20 min	35	dB
VSWR	2400-2500	2.0 max	1.21	-

High-Band

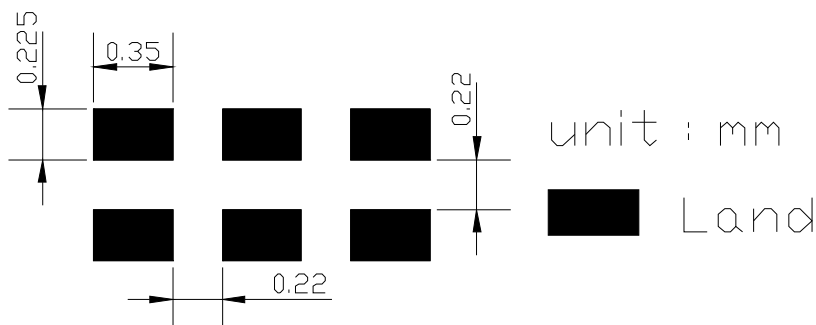
Parameter	Freq. (MHz)	Specification	Typ.	Unit
Insertion Loss	4900-5950	1.2 max	0.71	dB
Attenuation	1800-2500	20 min	28	dB
	9800-11900	20 min	33	dB
VSWR	4900-5950	2.0 max	1.20	-

Common Port

Parameter	Freq. (MHz)	Specification	Typ.	Unit
VSWR	2400-2500	2.0 max	1.14	-
	4900-5950	2.0 max	1.40	-

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

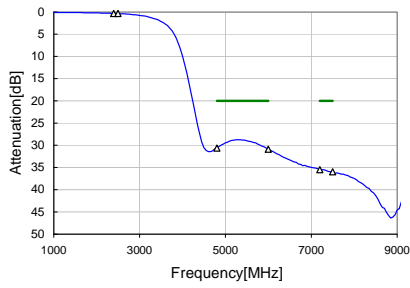
LAND PATTERN



FREQUENCY CHARACTERISTICS

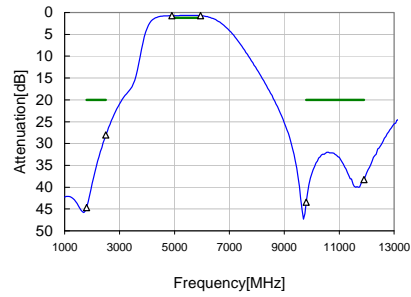
DPX165950DT-8030A1 Sample Data

Low band-Port



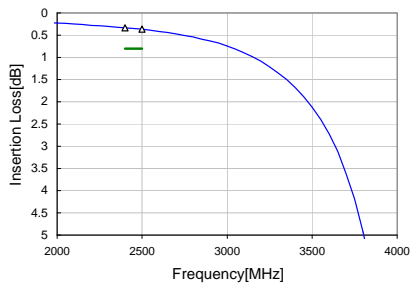
Insertion Loss	
2400 MHz	0.34 dB
2500 MHz	0.36 dB
Attenuation	
4800 MHz	30.59 dB
6000 MHz	30.91 dB
7200 MHz	35.47 dB
7500 MHz	35.96 dB

High band-Port



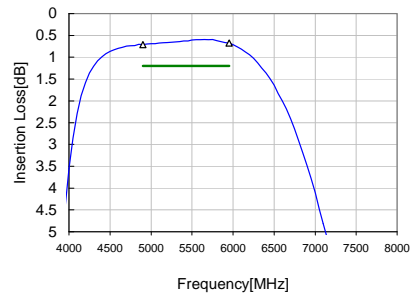
Insertion Loss	
4900 MHz	0.71 dB
5950 MHz	0.68 dB
Attenuation	
1800 MHz	44.68 dB
2500 MHz	28.03 dB
9800 MHz	43.45 dB
11900 MHz	38.32 dB

Low band-Port



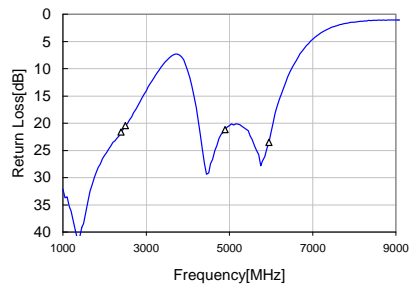
Insertion Loss	
2400 MHz	0.34 dB
2500 MHz	0.36 dB

High band-Port



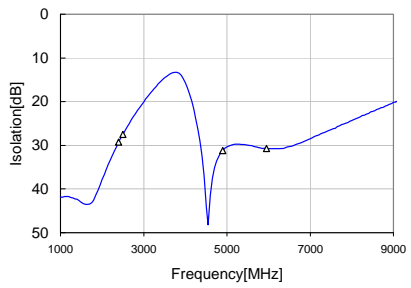
Insertion Loss	
4900 MHz	0.71 dB
5950 MHz	0.68 dB

Common Port Return Loss



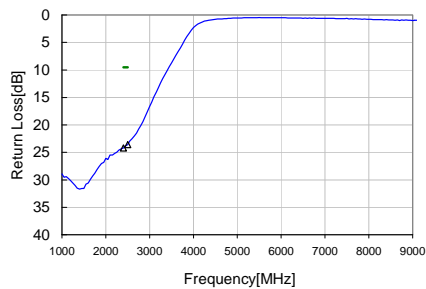
2400 MHz	21.62
2500 MHz	20.46
4900 MHz	21.15
5950 MHz	23.52

Isolation



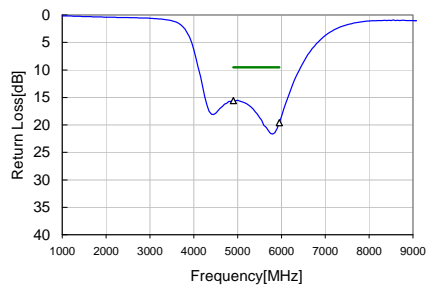
2400 MHz	29.2
2500 MHz	27.5
4900 MHz	31.2
5950 MHz	30.7

Low band-Port Return Loss



2400 MHz	24.20
2500 MHz	23.58

High band-Port Return Loss



4900 MHz	15.55
5950 MHz	19.63