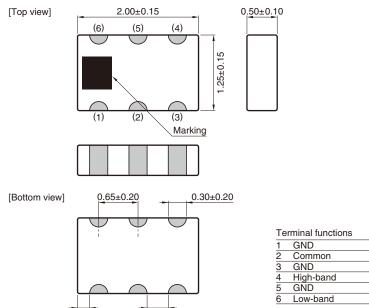
Multilayer Diplexer

For 2400-2500MHz / 4900-5950MHz

DPX205950DT-9026A1

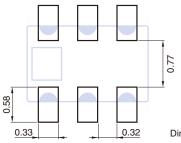
SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED LAND PATTERN

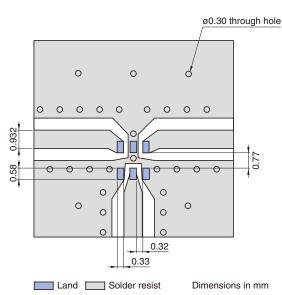
0.20±0.20



0.35±0.20

Dimensions in mm

EVALUATION BOARD



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

O RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/

• All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

LOW-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400 to 2500	—	0.39	0.50
Return Loss (dB)	2400 to 2500	10	15.5	—
Attenuation (dB)	4800 to 5000	20	34.7	_
	7200 to 7500	20	25.2	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	4900 to 5950		0.39	0.65
Return Loss (dB)	4900 to 5950	10	17.0	_
Attenuation (dB)	824 to 915	20	26.9	_
	1800 to 2500	20	26.2	_
	9800 to 11900	15	20.6	_
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Isolation (dB)	DC to 2500	20	25.6	_
	4900 to 5950	20	25.0	_
Return Loss (dB)	2400 to 2500	10	16.5	—
	4900 to 5950	10	17.2	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

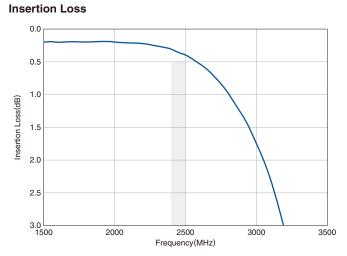
TEMPERATURE RANGE

Operating temperature	Storage temperature		
(° C)	(°C)		
-40 to +85	-40 to +85		

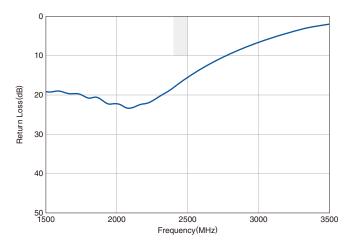
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

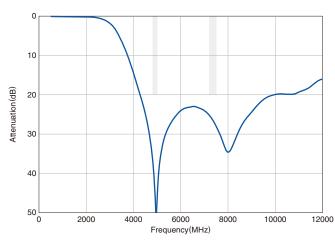
LOW-BAND



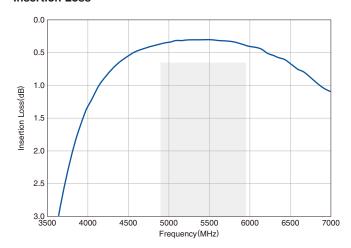
Return Loss



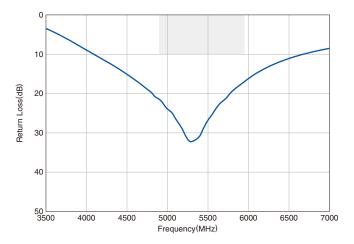
Attenuation



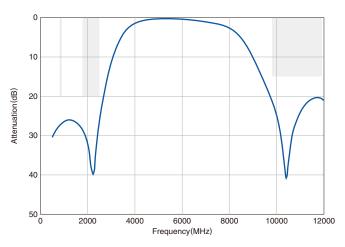




Return Loss



Attenuation



• All specifications are subject to change without notice.

DPX205950DT-9026A1

FREQUENCY CHARACTERISTICS



4000

6000

Frequency(MHz)

40

50 L

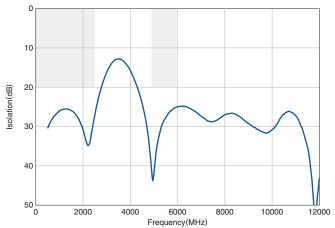
2000

Isolation

10000

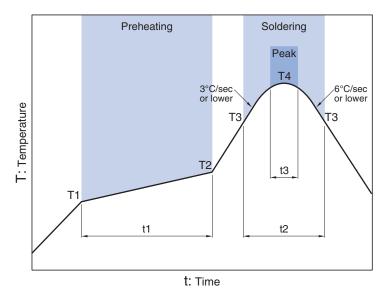
12000

8000



• All specifications are subject to change without notice.

RECOMMENDED REFLOW PROFILE



Soldering Preheating Critical zone (T3 to T4) Peak Temp. Time Temp. Time Temp. Time T1 T2 **T**4 t1 ТЗ t2 t3* 150°C 200°C 60 to 120sec 217°C 60 to 120sec 240 to 260°C 30sec max.

 * t3 : Time within 5°C of actual peak temperature

The maximum number of reflow is 3.

• All specifications are subject to change without notice.

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

▲ REMINDERS

The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this catalog.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/ equipment or providing backup circuits, etc., to ensure higher safety.

· All specifications are subject to change without notice.

[•] Before using these products, be sure to request the delivery specifications.