

Multilayer Diplexer

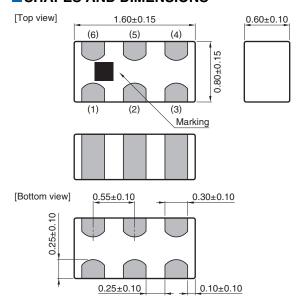
For 2400-2496MHz / 5150-5950MHz

Conformity to RoHS Directive

DPX165950DT-8060A1

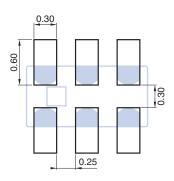
Dimensions in mm

SHAPES AND DIMENSIONS



Terminal functions			
1	GND		
2	Common		
3	GND		
<u>4</u> 5	High-band		
5	GND		
6	Low-band		

■ RECOMMENDED LAND PATTERN



Dimensions in mm

OROHS 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.

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



DPX165950DT-8060A1

ELECTRICAL CHARACTERISTICS

□LOW-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400 to 2496	_	0.51	0.65
Return Loss (dB)	2400 to 2496	10	13	_
Attanuation (dD)	4800 to 5000	32	43	_
Attenuation (dB)	7200 to 7500	15	24	_
Characteristic Impedance (Ω)			50 (Nominal)	

[·] Ta: +25±5°C

□HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Мах.
Insertion Loss (dB)	5150 to 5950	_	0.90	1.25
Return Loss (dB)	5150 to 5950	10	15	_
	70 to 2000	30	42	_
	2400 to 2690	30	35	_
Attenuation (dB)	7250 to 7800	9	14	_
	10300 to 11700	28	33	_
	15000 to 18000	10	27	_
Characteristic Impedance (Ω)			50 (Nominal)	

[•] Ta: +25±5°C

■TEMPERATURE RANGE

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

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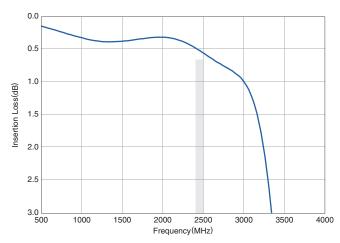
公TDK

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FREQUENCY CHARACTERISTICS

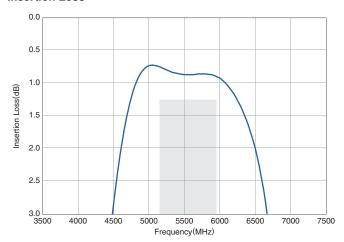
LOW-BAND

Insertion Loss

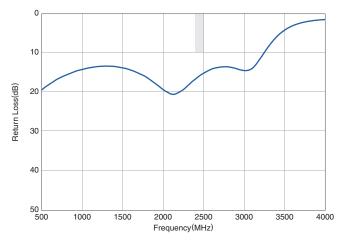


☐HIGH-BAND

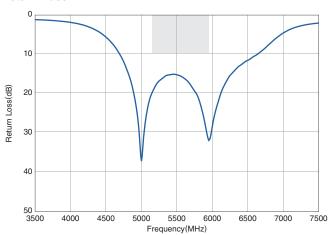
Insertion Loss



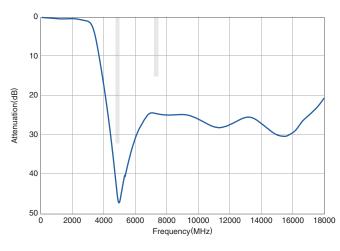
Return Loss



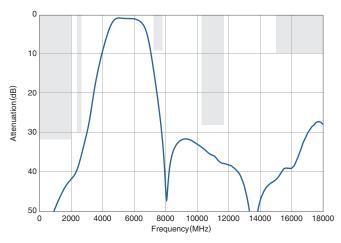
Return Loss



Attenuation



Attenuation



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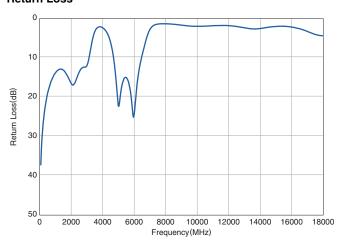


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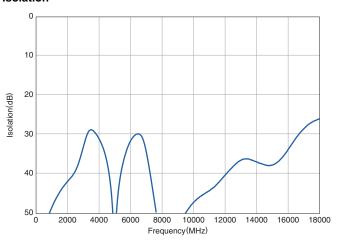
■ FREQUENCY CHARACTERISTICS

□ COMMON

Return Loss



Isolation



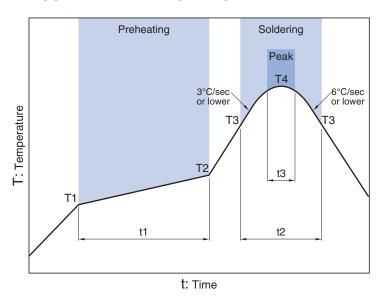
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■ RECOMMENDED REFLOW PROFILE



Preheating ———			Soldering Critical zon	Soldering Critical zone (T3 to T4) Peak			
Temp. Time		Temp.	Time	Temp.	Time		
T1	T2	t1	T3	t2	T4	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.

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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.

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