

April 2019

Multilayer Diplexer

For 2400-2500MHz / 5150-5850MHz

DPX205850DT-9043B1BR

2.0x1.25mm [EIA 0805]*

* Dimensions Code JIS[EIA]



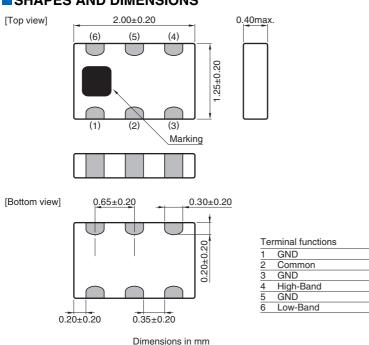
Multilayer Diplexer

For 2400-2500MHz / 5150-5850MHz

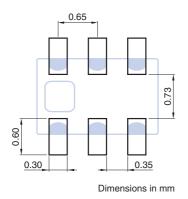
Conformity to RoHS Directive

DPX205850DT-9043B1BR

SHAPES AND DIMENSIONS



■ RECOMMENDED LAND PATTERN



 $\bigcirc \ \mathsf{RoHS} \ \mathsf{Directive} \ \mathsf{Compliant} \ \mathsf{Product} . \ \mathsf{See} \ \mathsf{the} \ \mathsf{following} \ \mathsf{for} \ \mathsf{more} \ \mathsf{details.https://product.tdk.com/info/en/environment/rohs/index.html$

[•] All specifications are subject to change without notice.

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ELECTRICAL CHARACTERISTICS

□LOW-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400 to 2500	_	0.27	0.45
Attanuation (dD)	4800 to 5000	23	29.6	_
Attenuation (dB)	7200 to 7500	20	39.1	_
Characteristic Impedance (Ω)			50 (Nominal)	

[·] Ta: +25±5°C

☐HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Мах.
Insertion Loss (dB)	5150 to 5850	_	0.31	0.50
	2400 to 2500	25	31.8	_
Attenuation (dB)	10300 to 11700	20	28.0	_
	15450 to 17550	18	31.2	_
Characteristic Impedance (Ω)			50 (Nominal)	

[·] Ta: +25±5°C

□ COMMON

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Isolation (dB)	2400 to 2500	20	32.4	_
	5150 to 5850	20	26.5	_
Detum Less (dD)	2400 to 2500	10	20.8	_
Return Loss (dB)	5150 to 5850	10	23.1	_
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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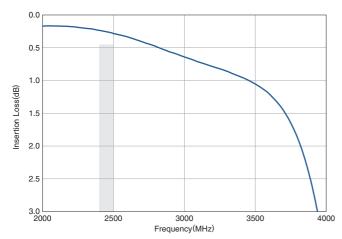
公TDK

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■FREQUENCY CHARACTERISTICS

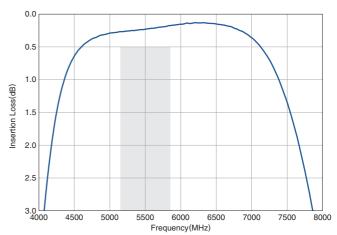
LOW-BAND

Insertion Loss

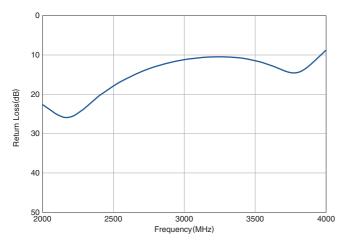


☐HIGH-BAND

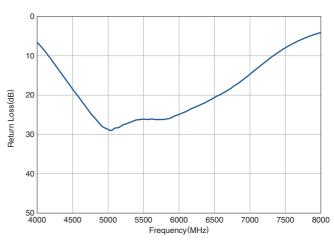
Insertion Loss



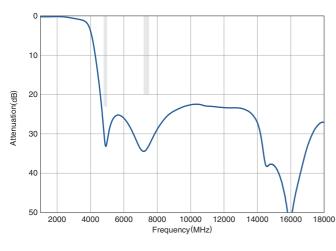
Return Loss



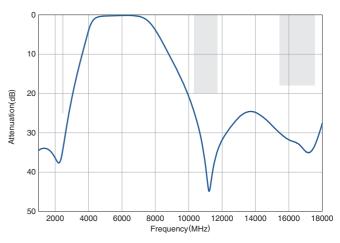
Return Loss



Attenuation



Attenuation



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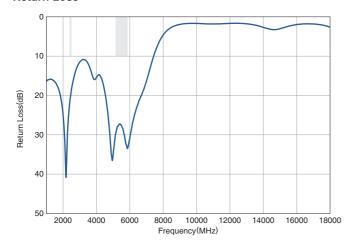


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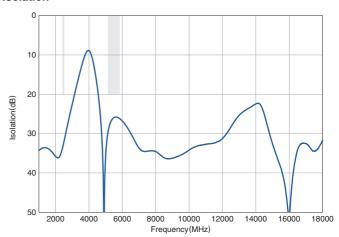
■ FREQUENCY CHARACTERISTICS

□COMMON

Return Loss



Isolation



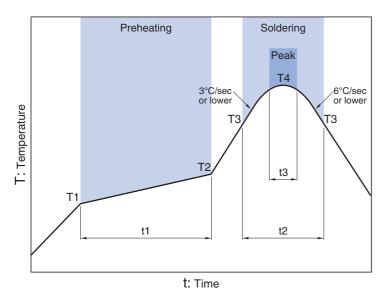
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■ RECOMMENDED REFLOW PROFILE



Soaking			Working		Soldering Peak		
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	Т3	t2	T4	t3	T5
150°C	180°C	60 to 120s	230°C	more than 30s	247 to 253°C	within 10s	260°C max.

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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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