

July 2015

Multilayer Diplexer

For 704-1578MHz / 2400-5850MHz

DPX205850DT-4052B2

2.0x1.25mm [EIA 0805]*

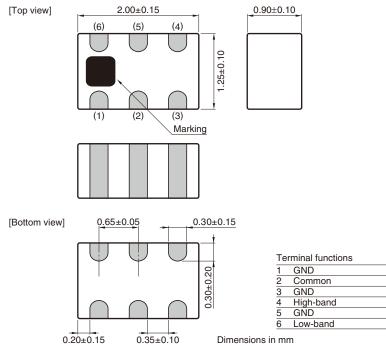
* Dimensions Code JIS[EIA]

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SHAPES AND DIMENSIONS



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.

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

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ELECTRICAL CHARACTERISTICS

LOW-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.	
	704 to 960	—	0.46	0.65	
Insertion Loss (dB)	1572 to 1578	—	0.29	0.55	
Insertion Loss (ub)	704 to 960	—	—	0.80 (-40 to +85°C)	
	1572 to 1578	—	—	0.70 (–40 to +85°C)	
Deturn Loop (dP)	704 to 960	12	25	—	
Return Loss (dB)	1572 to 1578	15	21	_	
	2400 to 2500	13	22		
Attenuation (dB)	2500 to 2690	12	16		
	5150 to 5850	22	30		
Characteristic Impedance (Ω)			50 (Nominal)		

• Ta: +25±5°C

HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
	2400 to 2500	—	0.29	0.45
	2500 to 2690	—	0.26	0.45
Incortion Loop (dP)	5150 to 5850	—	0.12	0.40
Insertion Loss (dB)	2400 to 2500	—	—	0.60 (-40 to +85°C)
	2500 to 2690	—	—	0.60 (-40 to +85°C)
	5150 to 5850	—	—	0.55 (-40 to +85°C)
	2400 to 2500	15	40	_
Return Loss (dB)	2500 to 2690	15	30	_
	5150 to 5850	10	24	_
Attenuation (dD)	704 to 960	9	12	
Attenuation (dB)	1572 to 1578	20	29	
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

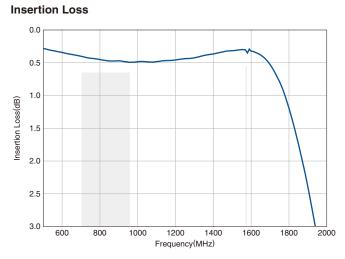
TEMPERATURE RANGE

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

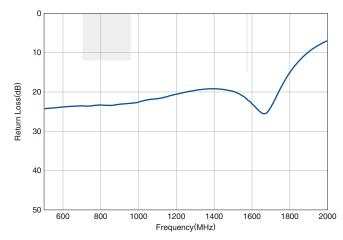
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FREQUENCY CHARACTERISTICS

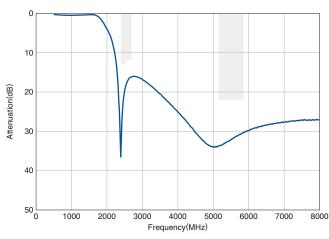


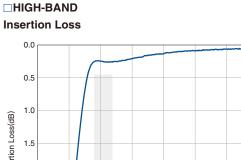


Return Loss



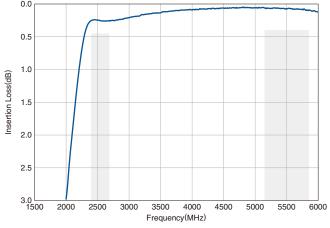




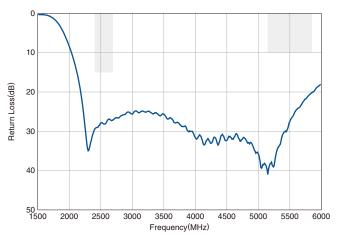


Insertion Loss

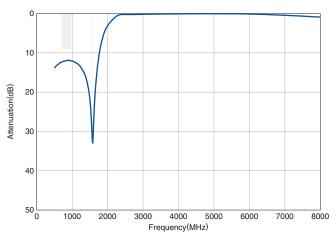
⊘TDK



Return Loss



Attenuation

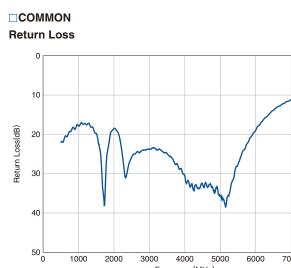


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FREQUENCY CHARACTERISTICS



3000

4000

Frequency(MHz)

5000

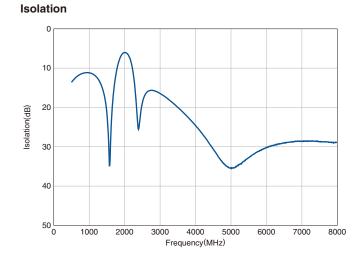
6000

7000

8000

1000

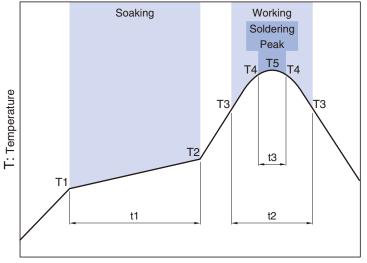
2000



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RECOMMENDED REFLOW PROFILE



t: Time

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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