

July 2015

Multilayer Diplexer

For 2400-2500MHz / 4900-5950MHz

DPX165950DT-8130A1

- 1.6x0.8mm [EIA 0603]*
- * Dimensions Code JIS[EIA]

Caution

The products in this catalog will be or have been stopped production

Discontinue Issue Date	Sep. 20, 2019
Last Purchase Order Date	Sep. 30, 2020
Last Shipment Date	Dec. 31, 2020

Please refer to our Web site about replacement information.



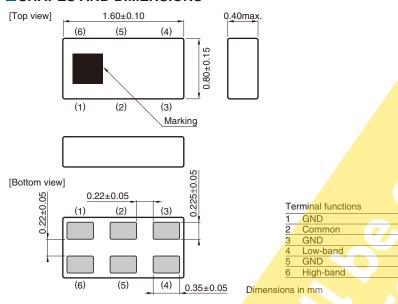
Multilayer Diplexer

For 2400-2500MHz / 4900-5950MHz

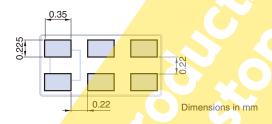
Conformity to RoHS Directive

DPX165950DT-8130A1

SHAPES AND DIMENSIONS



■ RECOMMENDED LAND PATTERN



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.



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ELECTRICAL CHARACTERISTICS

□LOW-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400 to 2500	_	0.36	0.80
Return Loss (dB)	2400 to 2500	9.54	20.1	
Attenuation (dB)	4800 to 6000	20	32	_
	7200 to 7500	20	27	_
Characteristic Impedance (Ω)			50 (Nominal)	

[•] Ta: +25±5°C

□HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	4900 to 5950	_	0.73	1.20
Return Loss (dB)	4900 to 5950	9.54	15.0	_
Attenuation (dB)	1800 to 2500	20	31	_
	9800 to 11900	20	34	_
Characteristic Impedance (Ω)			50 (Nominal)	

[•] Ta: +25±5°C

□ COMMON

Item	Frequency Range (MHz)	/ 	Min.	Тур.	Max.
Datum Laca (dD)	2400 to 2500		9.54	18.2	_
Return Loss (dB)	4900 to 5950		9.54	18.2	_
Characteristic Impedance (Ω)				50 (Nomi	nal)

[•] Ta: +25±5°C

TEMPERATURE RANGE

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

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FREQUENCY CHARACTERISTICS

□LOW-BAND

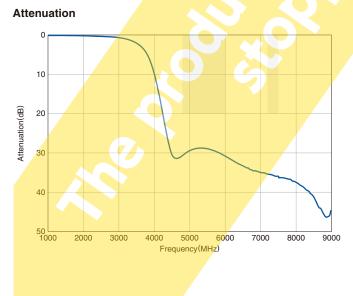
Insertion Loss 0.0 0.5 1.0 2.0 2.5 2.0 2.5 3.0 2.000 2.500 3.000 3.500 4000

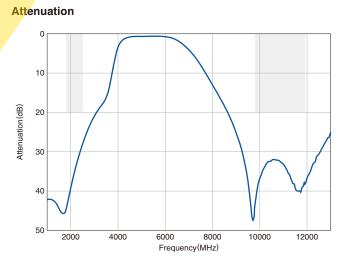
Frequency(MHz)



Return Loss 10 10 20 40 2000 2500 3000 3500 4000







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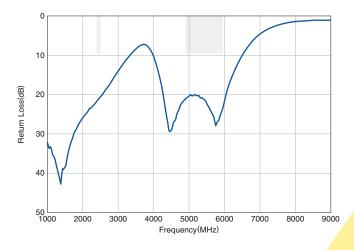


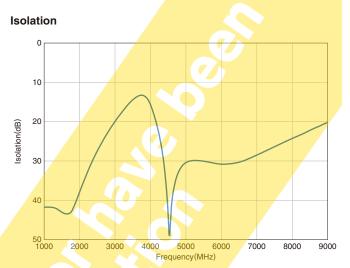
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■ FREQUENCY CHARACTERISTICS

□ COMMON

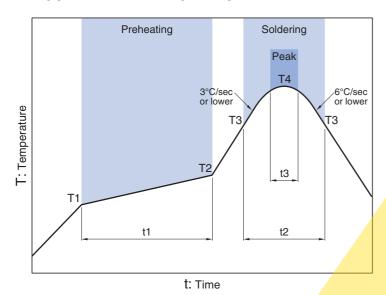
Return Loss





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■ RECOMMENDED REFLOW PROFILE



Preheating		Soldering				
		Critical zor	ne (T3 to T4)	Peak		
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	t3*
150°C	200°C	60 to 120sec	217°C	60 to 120s	sec 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, 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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