imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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October 2015

Multilayer Diplexer

For 791-2690MHz / 4900-5950MHz

DPX165950DT-8030D1

1.6x0.8mm [EIA 0603]*

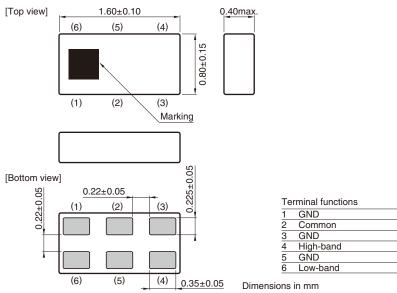
* Dimensions Code JIS[EIA]

Multilayer Diplexer

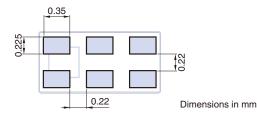
For 791-2690MHz / 4900-5950MHz

DPX165950DT-8030D1

SHAPES AND DIMENSIONS



RECOMMENDED LAND PATTERN



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.

公TDK

DPX165950DT-8030D1

ELECTRICAL CHARACTERISTICS

LOW-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dP)	791 to 2690	—	0.43	0.50
Insertion Loss (dB)	791 to 2690	_		0.70 (-40 to +85°C)
Return Loss (dB)	791 to 2690	17.69	20.3	
	4800 to 5150	20	25	
Attenuetien (dD)	5150 to 5850	30	33	
Attenuation (dB)	5850 to 6000	20	32	
	7200 to 7860	20	29	
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

□HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	4900 to 5950		0.86	1.0
Insertion Loss (uB)	4900 to 5950		—	1.2 (–40 to +85°C)
	4900 to 5150	9.54	18.9	—
Return Loss (dB)	5150 to 5850	11.73	14.8	—
	5850 to 5950	9.54	14.0	—
	800 to 2500	28	31	—
	2570 to 2620	38	43	—
	3450	10	20	—
Attenuation (dB)	3900	6	11	—
	7250	1	3	—
	7800	4	7	_
	9800 to 11900	20	27	_
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

Item	Frequency Range (MHz)	Min.	Тур.	Max.
	791 to 2690	13.98	19.1	—
Boturn Loop (dB)	4900 to 5150	9.54	21.1	—
Return Loss (dB)	5150 to 5850	13.98	15.7	—
	5850 to 5950	9.54	15.1	—
	800 to 2500	28	31	—
Isolation (dB)	2570 to 2620	34	39	—
	5150 to 5850	30	35	—
Power Handling (W)		—	—	1
Characteristic Impedance (Ω)			50 (Nominal)	
T 07 700				

• Ta: +25±5°C

TEMPERATURE RANGE

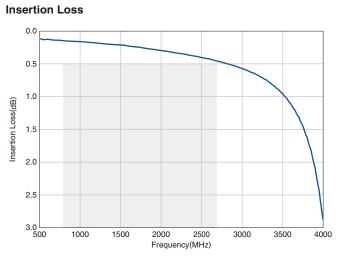
Operating temperature	Storage temperature	
(° C)	(°C)	
-40 to +85	-40 to +85	

All specifications are subject to change without notice. Before using these products, be sure to request the delivery specifications.

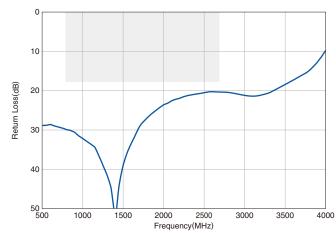
DPX165950DT-8030D1

FREQUENCY CHARACTERISTICS

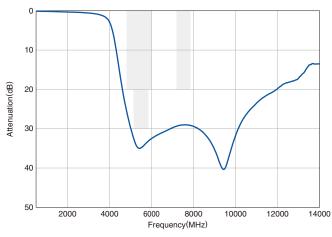


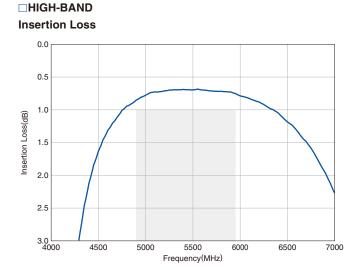




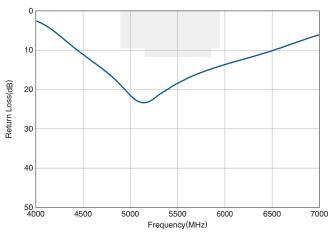




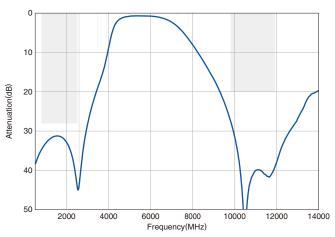




Return Loss



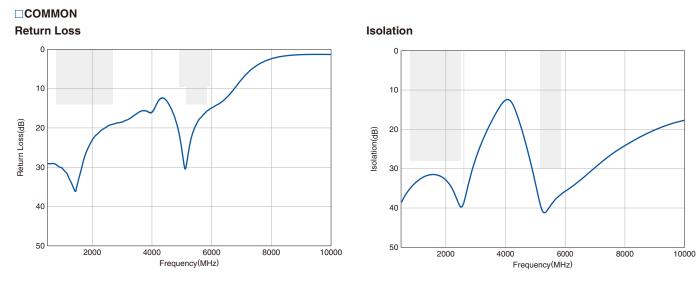
Attenuation



• All specifications are subject to change without notice.

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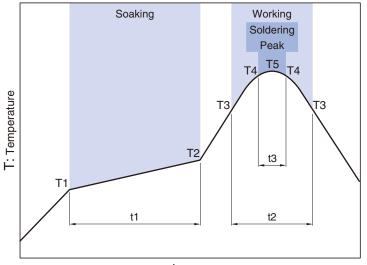
FREQUENCY CHARACTERISTICS



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DPX165950DT-8030D1

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