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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





July 2015

Multilayer Diplexer

For 806-941MHz / 1574.42-1576.42MHz

DPX161576DT-8011B1

1.6x0.8mm [EIA 0603]*

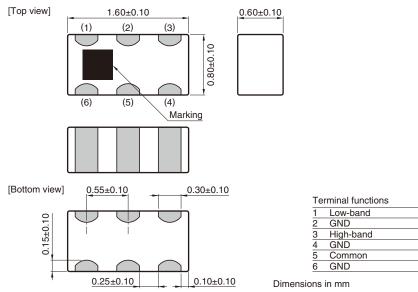
* Dimensions Code JIS[EIA]

Multilayer Diplexer

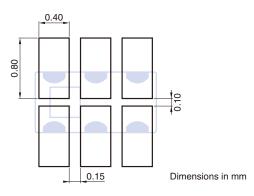
For 806-941MHz / 1574.42-1576.42MHz

DPX161576DT-8011B1

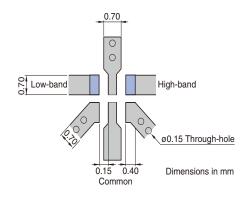
SHAPES AND DIMENSIONS



RECOMMENDED LAND PATTERN



EVALUATION BOARD



Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

O RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/

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

公TDK

All specifications are subject to change without notice.

DPX161576DT-8011B1

ELECTRICAL CHARACTERISTICS

LOW-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dP)	806 to 941	_	0.40	0.60
Insertion Loss (dB)	806 to 941	_	_	0.70 (-30 to +85°C)
Return Loss (dB)	806 to 941	14	16.8	_
	1575	16	21.7	_
Attenuetien (dD)	1612 to 1648	18	25.2	_
Attenuation (dB)	1792 to 1856	14	18.9	_
	2000 to 3000	5	10.1	_
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

□HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.	
Insertion Loss (dB)	1574.42 to 1576.42	—	0.66	0.70	
	1574.42 to 1576.42	—	—	0.80 (–30 to +85°C)	
Return Loss (dB)	1574.42 to 1576.42	14	22.8	—	
Attenuation (dB)	806 to 928	20	30.5	—	
Characteristic Impedance (Ω)			50 (Nominal)		

• Ta: +25±5°C

Item	Frequency Range (MHz)	Min.	Тур.	Max.
	806 to 928	20	30.8	
lociation (dP)	1575	16	22.3	_
Isolation (dB)	1612 to 1648	18	26.0	_
	1792 to 1856	14	21.5	_
Return Loss (dB)	806 to 941	14	17.6	—
Return Loss (uB)	1574.42 to 1576.42	14	16.7	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

TEMPERATURE RANGE

Operating temperature				
(°C)				
-30 to +85				

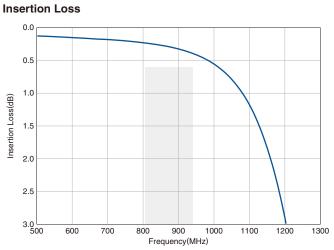
• All specifications are subject to change without notice.

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

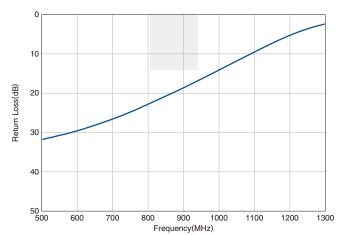
DPX161576DT-8011B1

FREQUENCY CHARACTERISTICS

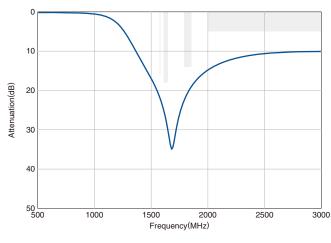


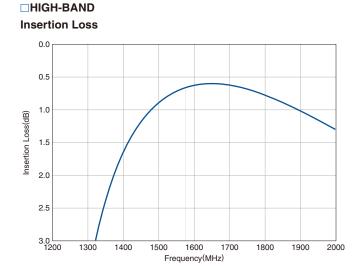


Return Loss

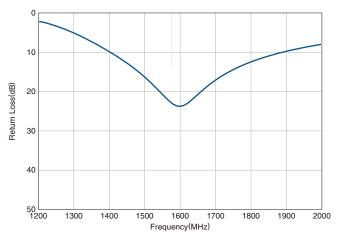


Attenuation

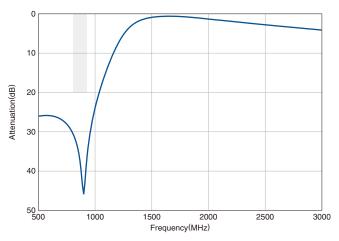




Return Loss



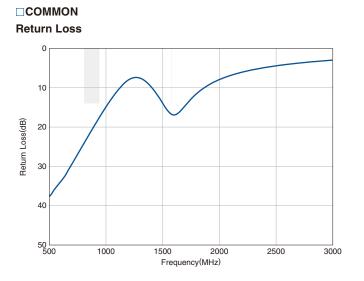
Attenuation



• All specifications are subject to change without notice.

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FREQUENCY CHARACTERISTICS

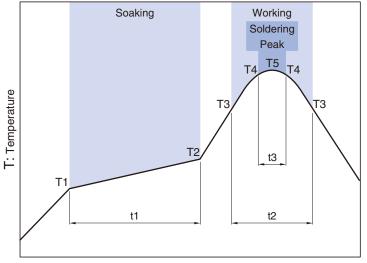


Isolation 0 10 20 Isolation(dB) 30 40 50 L 500 2000 Frequency(MHz) 1000 1500 2500 3000

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DPX161576DT-8011B1

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.

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

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.

• All specifications are subject to change without notice.

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