

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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July 2015

Multilayer Diplexer

For 2300-2500MHz / 3168-4752MHz

DPX204752DT-4028A1

2.0x1.25mm [EIA 0805]*

* Dimensions Code JIS[EIA]



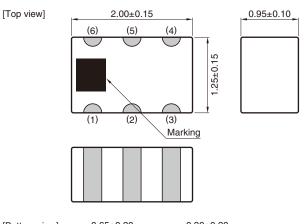
Multilayer Diplexer

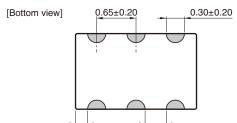
For 2300-2500MHz / 3168-4752MHz

Conformity to RoHS Directive

DPX204752DT-4028A1

SHAPES AND DIMENSIONS

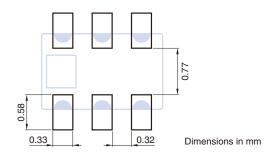




Te	Terminal functions			
1	GND			
2	Common			
3	GND			
4	High-band			
5	GND			
6	Low-band			
Dimensions in mi	m			

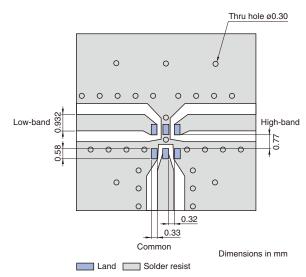
■ RECOMMENDED LAND PATTERN

0.20±0.20



0.35±0.20

EVALUATION BOARD



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

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.



ELECTRICAL CHARACTERISTICS

□LOW-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2300 to 2500	_	0.77	1.10
Attenuation (dB)	3168 to 4752	20	26.0	_
Characteristic Impedance (Ω)			50 (Nominal)	

[·] Ta: +25±5°C

□HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	3168 to 4752	_	0.64	1.20
Attenuation (dB)	2300 to 2500	20	23.3	_
Characteristic Impedance (Ω)			50 (Nominal)	

[·] Ta: +25±5°C

□COMMON

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Return Loss (dB)	2300 to 2500	10	16.0	_
	3168 to 4752	7	10.4	_
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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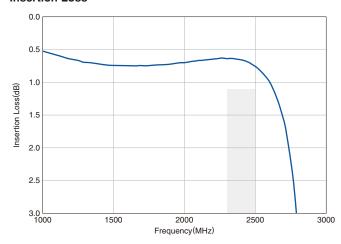
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FREQUENCY CHARACTERISTICS

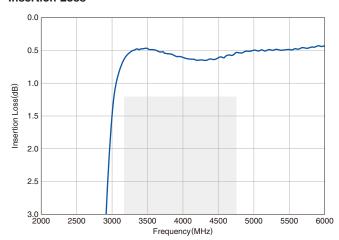
□LOW-BAND

Insertion Loss

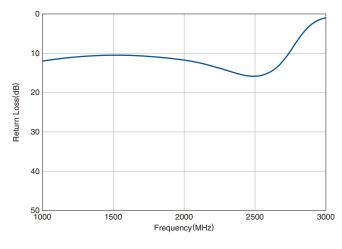


☐HIGH-BAND

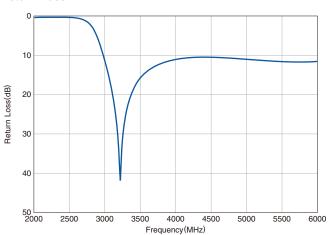
Insertion Loss



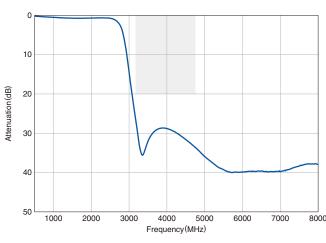
Return Loss



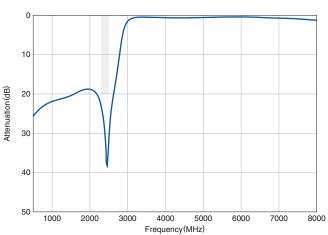
Return Loss



Attenuation



Attenuation



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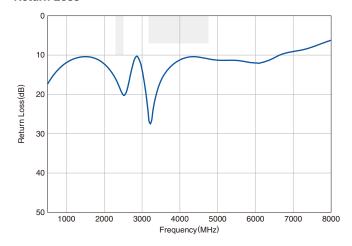
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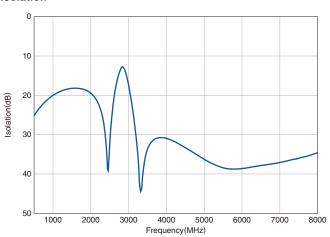
■ FREQUENCY CHARACTERISTICS

□ COMMON

Return Loss



Isolation

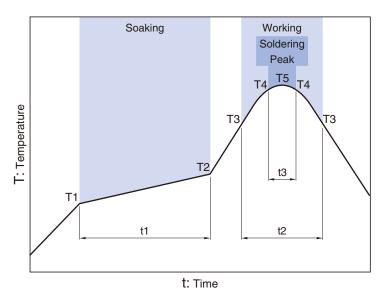


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■ RECOMMENDED REFLOW PROFILE



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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