

July 2015

Multilayer Diplexer

For 800-945MHz / 1572-1990MHz

DPX201990DT-4051A2

2.0x1.25mm [EIA 0805]*

* Dimensions Code JIS[EIA]



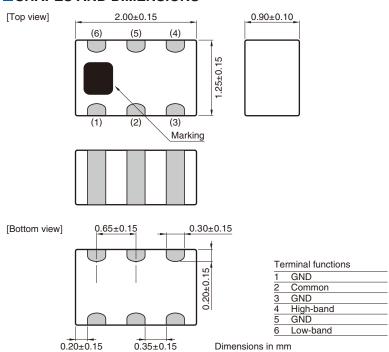
Multilayer Diplexer

For 800-945MHz / 1572-1990MHz

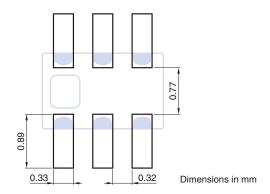
Conformity to RoHS Directive

DPX201990DT-4051A2

SHAPES AND DIMENSIONS



■ RECOMMENDED LAND PATTERN



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)	800 to 945	_	0.38	0.50
	800 to 945	_	_	0.65 (-40 to +85°C)
A44	1572 to 2000	25	31.3	_
Attenuation (dB)	2400 to 2700	35	41.2	_
Characteristic Impedance (Ω)			50 (Nominal)	

[·] Ta: +25±5°C

□HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
	1572 to 1578	_	0.38	0.50
Insertion Loss (dB)	1710 to 1990	_	0.42	0.55
	1572 to 1578	_	_	0.65 (-40 to +85°C)
	1710 to 1990	_	_	0.70 (-40 to +85°C)
Attenuation (dB)	800 to 945	23	28.4	
Characteristic Impedance (Ω)			50 (Nominal)	

[•] Ta: +25±5°C

□COMMON

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Power Handling (W)		_	_	3
Characteristic Impedance (Ω)			50 (Nominal)	

[•] Ta: +25±5°C

TEMPERATURE RANGE

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

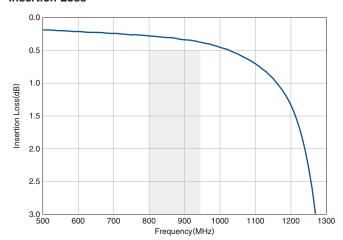
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■ FREQUENCY CHARACTERISTICS

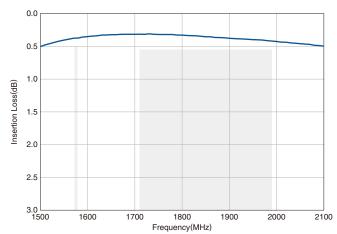
□LOW-BAND

Insertion Loss

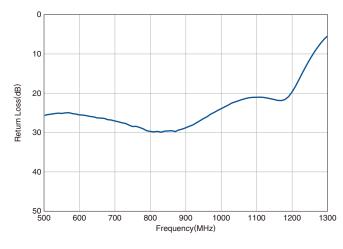


☐HIGH-BAND

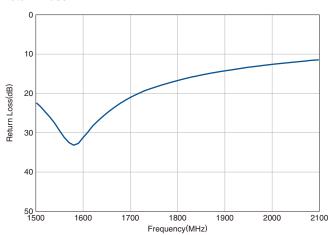
Insertion Loss



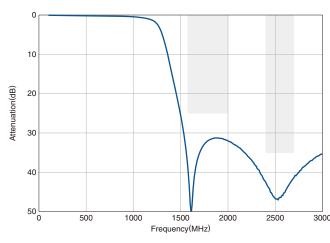
Return Loss



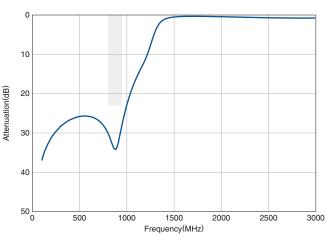
Return Loss



Attenuation



Attenuation



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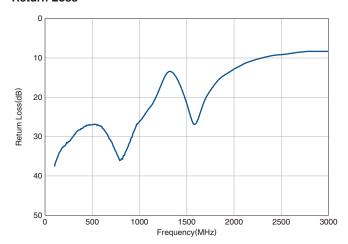
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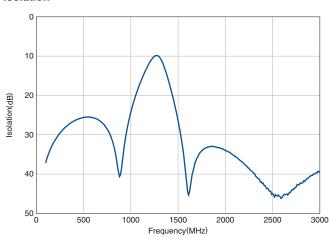
■ FREQUENCY CHARACTERISTICS

□ COMMON

Return Loss



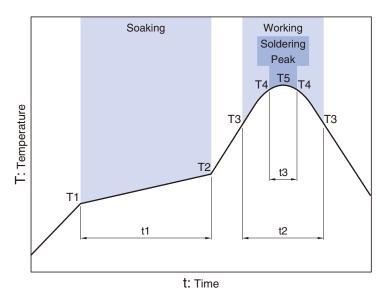
Isolation



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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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