

January 2016

Multilayer Diplexer

For 699-960MHz / 1427-2690MHz

DPX252690DT-5042B2

2.5x2.0mm [EIA 1008]*

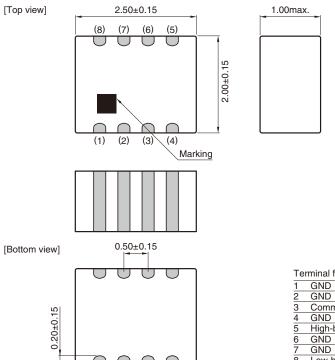
* Dimensions Code JIS[EIA]

Multilayer Diplexer

For 699-960MHz / 1427-2690MHz

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SHAPES AND DIMENSIONS

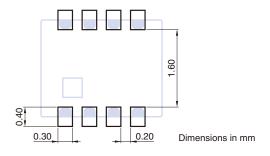


Terminal functions		
1	GND	
2	GND	
3	Common	
2 3 4	GND	
5	High-band	
5 6 7	GND	
7	GND	
8	Low-band	

Dimensions in mm

RECOMMENDED LAND PATTERN

0.25±0.15



0.25±0.15

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

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[•] 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.
	699 to 814	_	0.26	0.40
Insertion Loss (dB)	814 to 960	—	0.41	0.55
Insention Loss (ub)	699 to 814		—	0.50 (–40 to +85°C)
	814 to 960			0.65 (–40 to +85°C)
	1436 to 1496	25	33	—
	1544 to 1574	20	29	—
	1648 to 1830	20	27	—
	2097 to 2148	25	30	—
Attenuation (dD)	2442 to 2484	35	39	—
Attenuation (dB)	2484 to 2745	20	35	—
	3256 to 3660	20	26	—
	4070 to 4575	25	28	—
	4944 to 5450	30	37	_
	5450 to 5850	25	33	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
	1427 to 1710	_	0.61	0.75
	1710 to 2170		0.43	0.60
	2500 to 2575		0.46	0.65
	2575 to 2620	—	0.46	0.70
Incention Lass (dD)	2620 to 2690	_	0.49	0.80
Insertion Loss (dB)	1427 to 1710	_		0.85 (-40 to +85°C)
	1710 to 2170		_	0.70 (–40 to +85°C)
	2500 to 2575		_	0.75 (-40 to +85°C)
	2575 to 2620	_		0.80 (-40 to +85°C)
	2620 to 2690	_		0.90 (-40 to +85°C)
	814 to 960	20	39	
Attenuetien (dD)	3420 to 3820	8	10	—
Attenuation (dB)	3840 to 3960	8	24	—
	5000 to 5850	20	24	_
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Isolation (dB)	699 to 960	20	38	_
Isolation (UB)	1427 to 2690	20	27	_
Characteristic Impedance (Ω) 50 (50 (Nominal)	

• Ta: +25±5°C

TEMPERATURE RANGE

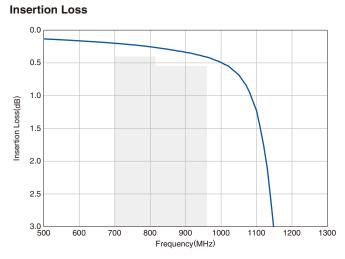
Operating temperature	Storage temperature
(° C)	(° C)
-40 to +85	-40 to +85

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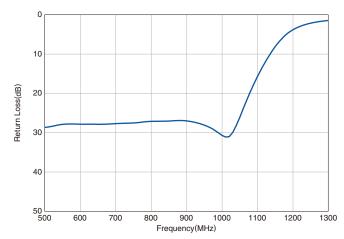
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FREQUENCY CHARACTERISTICS

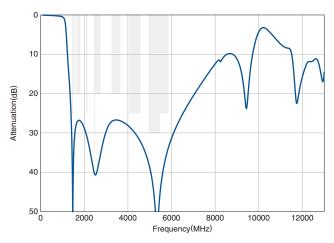


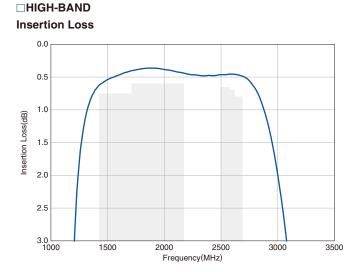


Return Loss

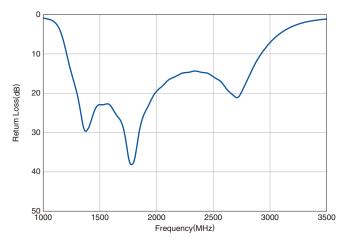


Attenuation

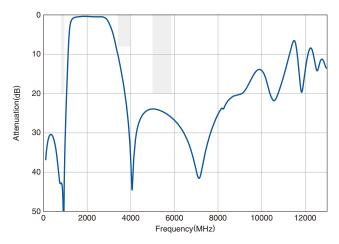




Return Loss



Attenuation



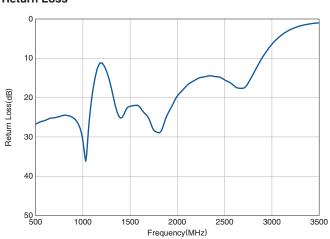
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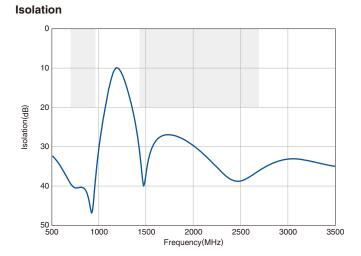
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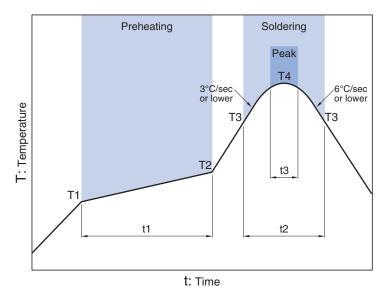






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RECOMMENDED REFLOW PROFILE



Soldering Preheating Critical zone (T3 to T4) Peak Temp. Time Temp. Time Temp. Time T1 T2 **T**4 t1 ТЗ t2 t3* 150°C 200°C 60 to 120sec 217°C 60 to 120sec 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 (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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