



Multilayer Diplexer

For 698-1607MHz / 2400-5850MHz

DPX165850DT-8032A1

1.6x0.8mm [EIA 0603]*

* Dimensions Code JIS[EIA]



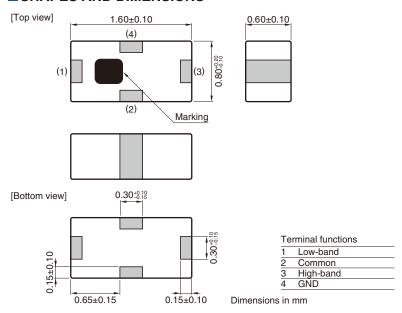
Multilayer Diplexer

For 698-1607MHz / 2400-5850MHz

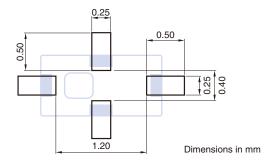
Conformity to RoHS Directive

DPX165850DT-8032A1

SHAPES AND DIMENSIONS



■ RECOMMENDED LAND PATTERN



OROHS 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.



DPX165850DT-8032A1

ELECTRICAL CHARACTERISTICS

□LOW-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
	698 to 960	_	0.23	0.40
	1427 to 1511	_	0.39	0.55
Incombine Long (dD)	1560 to 1607	_	0.46	0.65
Insertion Loss (dB)	698 to 960	_	_	0.50 (-40 to +85°C)
	1427 to 1511	_	_	0.70 (-40 to +85°C)
	1560 to 1607	_	_	0.80 (-40 to +85°C)
	698 to 960	9.54	28.2	_
Return Loss (dB)	1427 to 1511	9.54	34.6	_
	1560 to 1607	9.54	30.4	_
	2400 to 2500	20	24	_
Attenuation (dB)	2620 to 2690	20	23	_
	5150 to 5850	13	21	_
Power Handling (W)		_	_	3.0
Characteristic Impedance (Ω)			50 (Nominal)	

[•] Ta: +25±5°C

☐HIGH-BAND

Item	Frequency Range (MHz)	Min.	Тур.	Max.
	2400 to 2500	_	0.49	0.70
	2620 to 2690	_	0.34	0.60
Learning Lagrandin	5150 to 5850	_	0.34	0.80
Insertion Loss (dB)	2400 to 2500	_	_	0.85 (-40 to +85°C)
	2620 to 2690	_	_	0.75 (-40 to +85°C)
	5150 to 5850	_		1.00 (-40 to +85°C)
	2400 to 2500	9.54	20.1	_
Return Loss (dB)	2620 to 2690	9.54	27.8	_
	5150 to 5850	9.54	15.6	_
	698 to 960	15	18	_
Attenuation (dB)	1427 to 1511	15	23	_
	1560 to 1607	20	30	_
Power Handling (W)		_	_	3.0
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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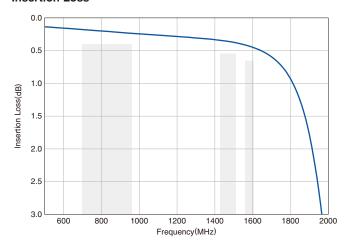


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FREQUENCY CHARACTERISTICS

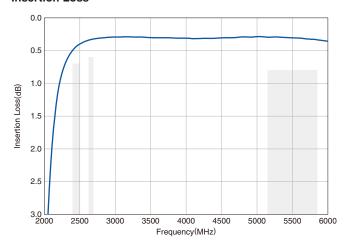
□LOW-BAND

Insertion Loss

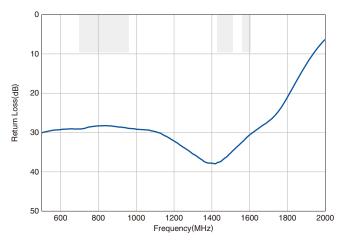


☐HIGH-BAND

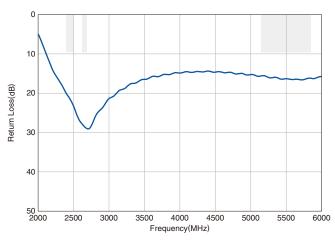
Insertion Loss



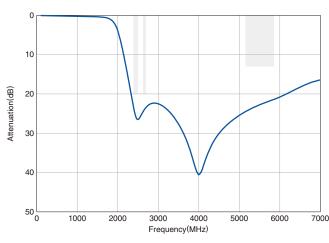
Return Loss



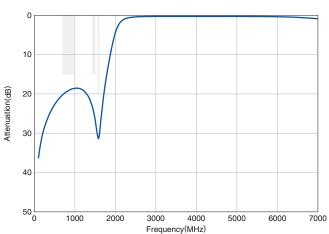
Return Loss



Attenuation



Attenuation



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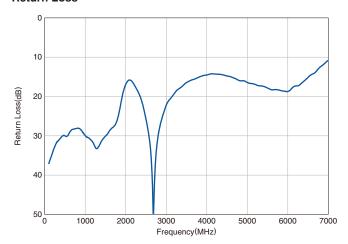


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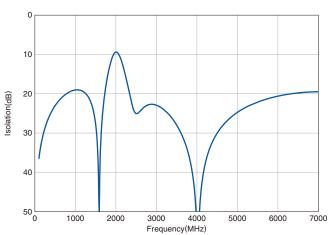
■ FREQUENCY CHARACTERISTICS

□ COMMON

Return Loss



Isolation

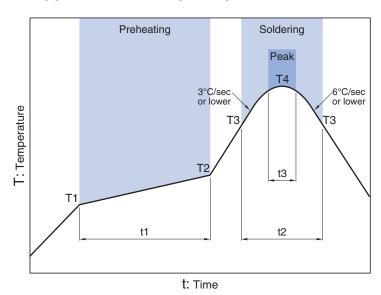


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■ RECOMMENDED REFLOW PROFILE



Preheating			Soldering Critical zone (T3 to T4) Peak			
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	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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