

Multilayer Diplexer

For 2.4GHz W-LAN & Bluetooth / 5GHz W-LAN

DPX Series 1.0x0.5mm [EIA 0402] TYPE

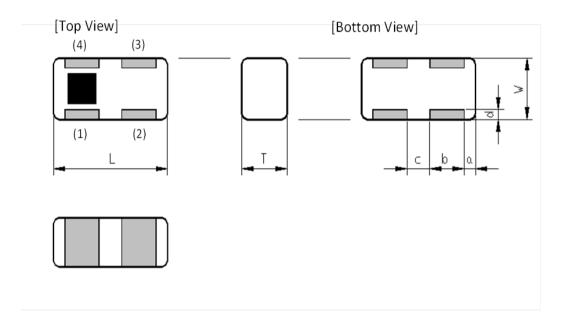


RF Components

Jul. 2016 Ver.2.0N TDK Corporation

DPX105950DT-6112A1

SHAPES AND DIMENSIONS



Dimensions (mm)

	1010110					
L	W	Т	а	b	С	d
1.00	0.50	0.33	0.10	0.30	0.20	0.12
+/-0.05	+/-0.05	Max	+/-0.10	+/-0.10	+/-0.10	+/-0.07

Terminal functions

(1)	GND				
(2)	Common Port				
(3)	Low-Band Port				
(4)	High-Band Port				

TEMPERATURE RANGE

Operating temperature	Storage temperature
–40 to +90 °C	–40 to +90 °C

(Measurement)

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ELECTRICAL CHARACTERISTICS

Low-Band

Parameter	Frequency (MHz)			TDK Spec			
Parameter				Min.	Тур.	Max.	
Insertion Loss (dB)	2400	to	2500	-	0.37	0.50	
Insertion Loss (dB)	2400	to	2500	-	-	0.60	
(−40 to +90 °C)							
Return Loss (dB)	2400	to	2500	10	22	-	
Attenuation (dB)	4800	to	6000	23	29	-	
	7200	to	7500	23	29	-	
Power Handling (W)				-	-	1.0	
Ta = +25+/-5°C							

High-Band

Eroguo	Frequency (MHz)			TDK Spec		
Freque	ncy		Min.	Тур.	Max.	
4900	to	5950	-	0.56	0.80	
4900	to	5950	-	-	1.00	
4900	to	5950	10	15	-	
30	to	2400	25	29	-	
2400	to	2500	27	41	-	
2500	to	2690	23	29	-	
9800	to	11900	20	30	-	
			-	-	1.0	
	4900 4900 4900 30 2400 2500	4900 to 4900 to 4900 to 4900 to 30 to 2400 to 2500 to	4900 to 5950 4900 to 5950 4900 to 5950 4900 to 5950 30 to 2400 2400 to 2500 2500 to 2690	Herequency (MHz) Min. 4900 to 5950 - 4900 to 5950 - 4900 to 5950 - 4900 to 5950 10 30 to 2400 25 2400 to 2500 27 2500 to 2690 23	Frequency (MHz) Min. Typ. 4900 to 5950 - 0.56 4900 to 5950 - - 4900 to 5950 - - 4900 to 5950 10 15 30 to 2400 25 29 2400 to 2500 27 41 2500 to 2690 23 29	

Ta = +25+/-5°C

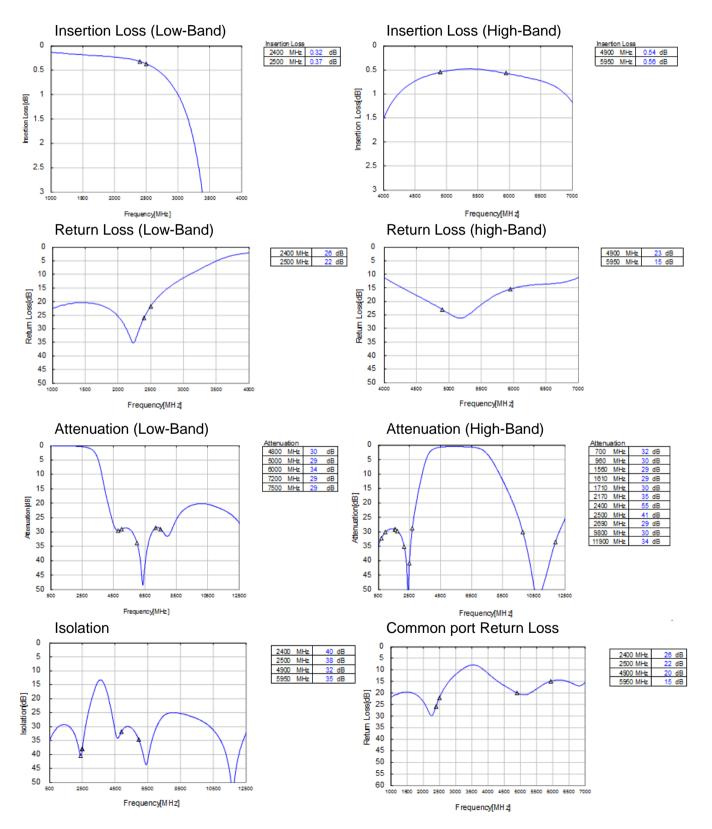
Common

Parameter			TDK Spec			
Farameter	Frequency (MHz)			Min.	Тур.	Max.
Return Loss (dB)	2400	to	2500	10	22	-
	4900	to	5950	10	15	-

Ta = +25+/-5°C

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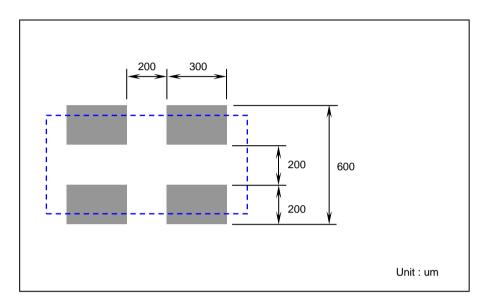
FREQUENCY CHARACTERISTICS



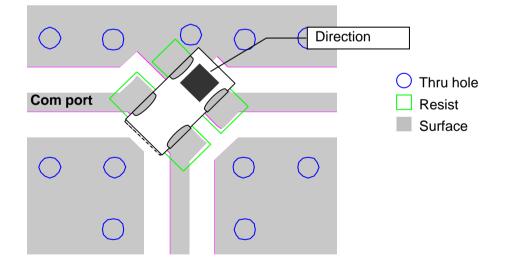
All specifications are subject to change without notice. TDK Technology - Proprietary and Confidential Information of TDK Group Companies

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RECOMMENDED LAND PATTERN



EVALUATION BOARD



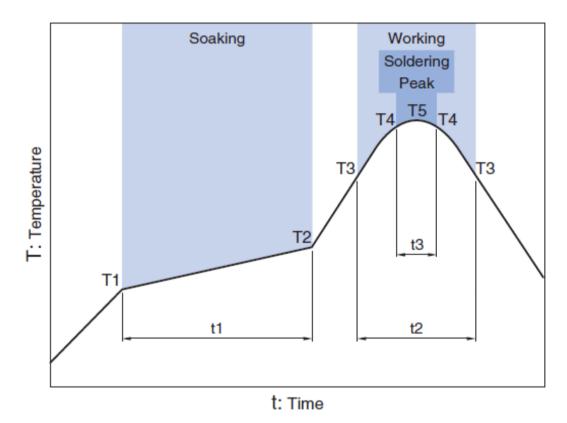
ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE

Pb free solder



	Soaking		Working		Soldering		Peak
Ter	np.	Time	Temp.	Time	Temp. Time		Temp.
T1	T2	t1	Т3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

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.

The products listed on this specification sheet 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 specification sheet.

- 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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