

Jul. 2016 Ver.3.0 TDK Corporation

Multilayer Diplexer

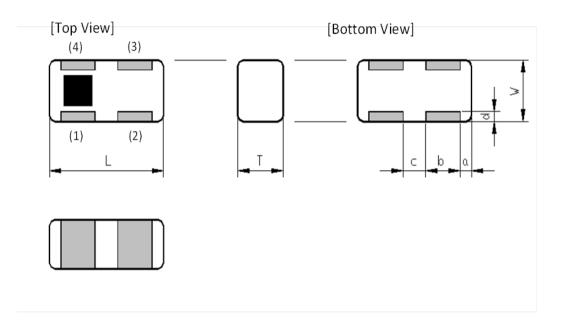
For 2.4GHz W-LAN & Bluetooth / 5GHz W-LAN

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



RF Components

SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	Τ	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)	Common Port			
(2)	GND			
(3)	High-Band Port			
(4)	Low-Band Port			

TEMPERATURE RANGE

Operating temperature	Storage temperature
–40 to +85 °C	–40 to +85 °C

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⊘TDK

DPX105950DT-6012A2

ELECTRICAL CHARACTERISTICS

Low-Band

Parameter	Frequency (MHz)			TDK Spec			
Farameter				Min.	Тур.	Max.	
Insertion Loss (dB)	2400	to	2500	-	0.37	0.50	
Insertion Loss (dB)	2400	to	2500	-	-	0.60	
(–40 to +85 °C)		to		-	-	-	
Return Loss (dB)	2400	to	2500	10	22	-	
Attenuation (dB)	4800	to	6000	23	29	-	
	7200	to	7500	23	29	-	

Ta = +25+/-5°C

High-Band

Parameter	Frequency (MHz)			TDK Spec			
Farameter				Min.	Тур.	Max.	
Insertion Loss (dB)	4900	to	5950	-	0.56	0.80	
Insertion Loss (dB)	4900	to	5950	-	-	1.00	
(−40 to +85 °C)		to		-	-	-	
Return Loss (dB)	4900	to	5950	10	15	-	
Attenuation (dB)	30	to	2400	25	29	-	
	2400	to	2500	32	41	-	
	2500	to	2690	23	29	-	
	9800	to	11900	20	30	-	

Ta = +25+/-5°C

Common

Parameter	Eroquo	nov		TDK Spec			
Faranieler	Freque	Frequency (MH		Min.	Тур.	Max.	
Return Loss (dB)	2400	to	2500	10	22	-	
	4900	to	5950	10	15	-	
Characteristic Impedance (ohm)				50 (Nominal)			

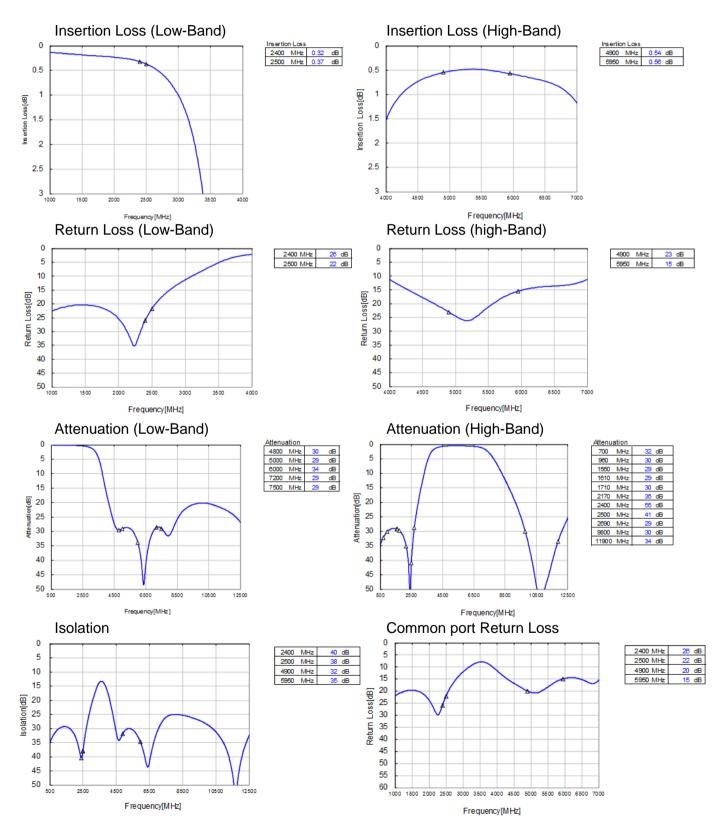
Ta = +25+/-5°C

(Measurement)

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FREQUENCY CHARACTERISTICS

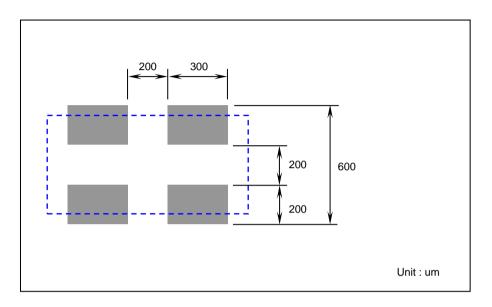


All specifications are subject to change without notice. TDK Technology - Proprietary and Confidential Information of TDK Group Companies

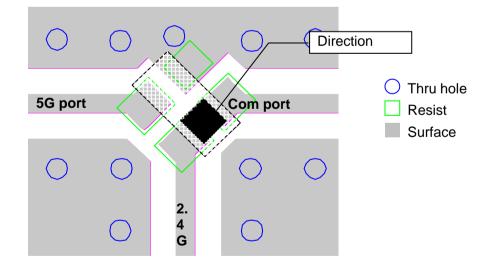
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RECOMMENDED LAND PATTERN



EVALUATION BOARD



ENVIRONMENT INFORMATION

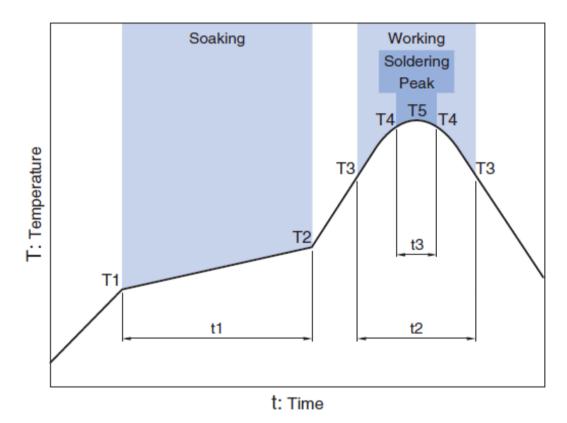
RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE

Pb free solder



	Soaking		V	Working		orking Soldering	
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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