

Multilayer Diplexer

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

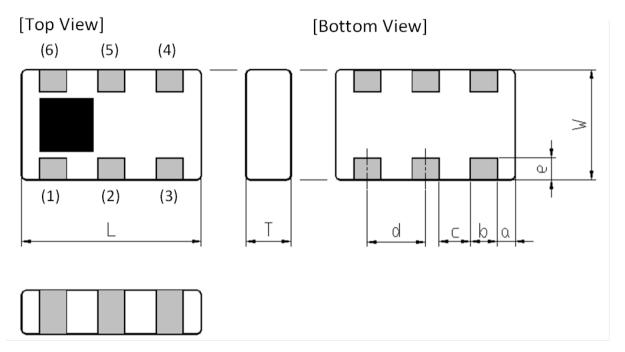
DPX Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DPX165950DT-8045A1**



DPX165950DT-8045A1

SHAPES AND DIMENSIONS



Dimensions (mm)

	1010110	<u> </u>					
П	W	T	а	b	С	d	е
1.60	0.80	0.60	0.10	0.30	0.25	0.55	0.15
+/-0.15	+/-0.15	Max	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10

Terminal functions

(1)	GND
(2)	Common Port
(3)	GND

(4)	High-Band Port
(5)	GND
(6)	Low-Band Port

TEMPERATURE RANGE

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



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ELECTRICAL CHARACTERISTICS

(Measurement)

Low-Band

Doromotor	Erogue	Frequency (MHz)		TDK Spec		
Parameter	Freque	incy	(IVITZ)	Min. - -	Тур.	Max.
Insertion Loss (dB)	2400	to	2500		0.35	0.55
VSWR	2400	to	2500	-	1.20	2.0
Attenuation (dB)	4800	to	5000	30	37	-
	7200	to	7500	30	33	-
Isolation (dB)	4900	to	5950	28	30	-

Ta = +25 + /-5°C

High-Band

Parameter	Eroguo	Frequency (MHz)		TDK Spec			
raiailletei	Freque	псу	(IVITIZ)	Min.	Тур.	Max.	
Insertion Loss (dB)	4900	to	5950	•	0.60	0.80	
VSWR	4900	to	5950	•	1.52	2.0	
Attenuation (dB)	30	to	2700	32	36	-	
	9800	to	11900	15	19	-	
	14700	to	17850	11	15	-	
Isolation (dB)	30	to	2700	32	36	-	

 $Ta = +25 + /-5 ^{\circ}C$

Common

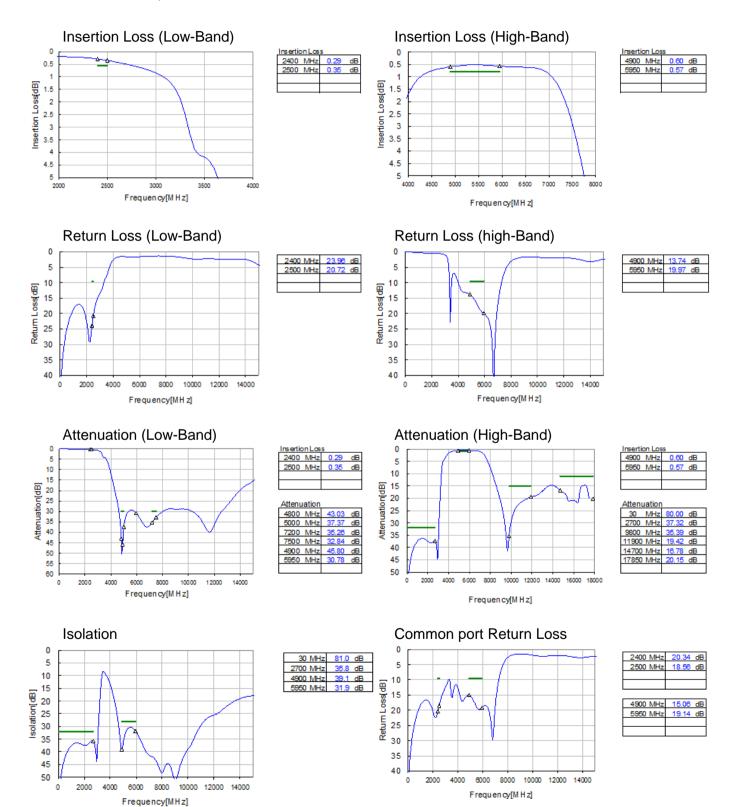
	Parameter	Frequency (MHz)		TDK Spec			
	raiailletei			Min.	Тур.	Max.	
VSWR		2400	to	2500	-	1.27	2.0
		4900	to	5950	-	1.43	2.0

 $Ta = +25 + /-5 ^{\circ}C$



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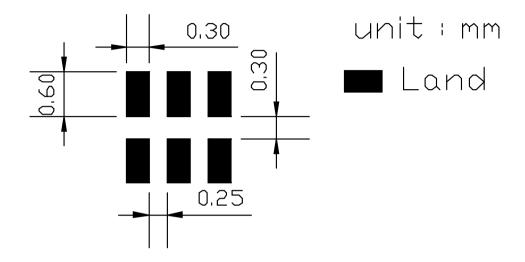
FREQUENCY CHARACTERISTICS





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RECOMMENDED LAND PATTERN



ENVIRONMENT INFORMATION

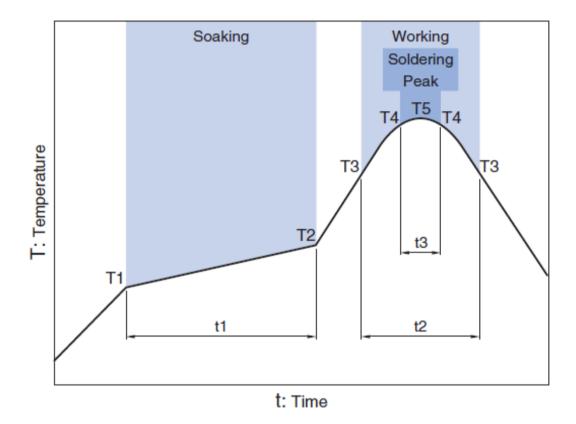
RoHS Statement RoHS Compliance



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RECOMMENDED REFLOW PROFILE

Pb free solder



	Soa	king	V	Vorking	Sold	Peak	
Tei	mp.	Time	Temp.	Time	Temp. Time		Temp.
T1	T2	t1	T3	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.

⚠ REMINDERS

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.

- 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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