

Multilayer Diplexer

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

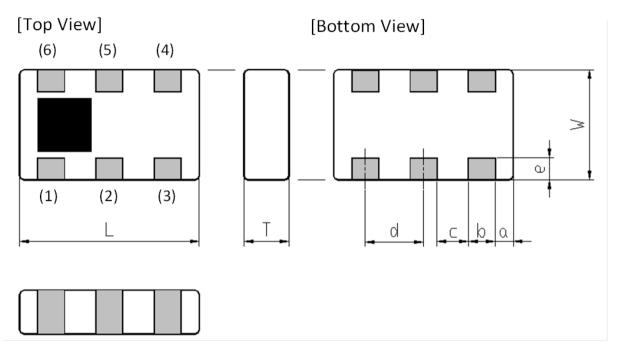
DPX Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DPX165950DT-8060A1**



DPX165950DT-8060A1

SHAPES AND DIMENSIONS



Dimensions (mm)

L	W	Т	а	b	С	d	е
1.60	0.80	0.60	0.10	0.30	0.25	0.55	0.25
+/-0.15	+/-0.15	+/-0.10	+/-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

Parameter	Frequency (MHz)			TDK Spec		
Parameter				Min.	Тур.	Max.
Insertion Loss (dB)	2400	to	2496	-	0.51	0.65
Return Loss (dB)	2400	to	2496	10	15	-
Attenuation (dB)	4800	to	5000	32	43	-
	7200	to	7500	15	24	-

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

High-Band

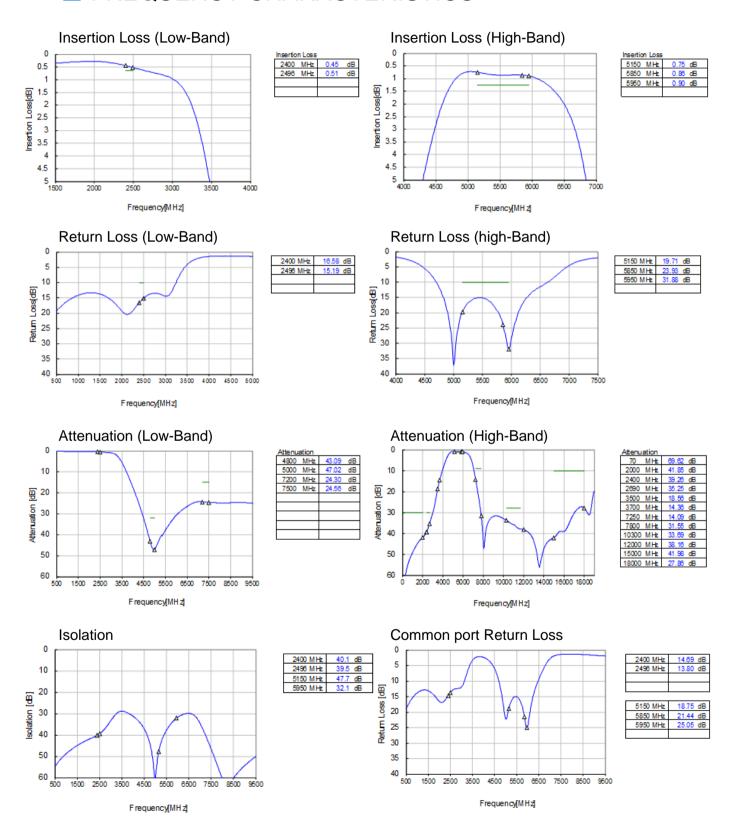
Parameter	Frequency (MHz)			TDK Spec		
raiailletei				Min.	Тур.	Max.
Insertion Loss (dB)	5150	to	5950	1	0.90	1.25
Return Loss (dB)	5150	to	5950	10	15	-
Attenuation (dB)	70	to	2000	30	42	-
	2400	to	2690	30	35	-
	7250	to	7800	9	14	-
	10300	to	11700	28	33	-
	15000	to	18000	10	27	-

Ta = +25 + /-5°C



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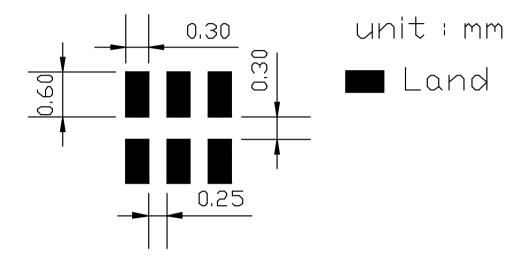
FREQUENCY CHARACTERISTICS





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RECOMMENDED LAND PATTERN



ENVIRONMENT INFORMATION

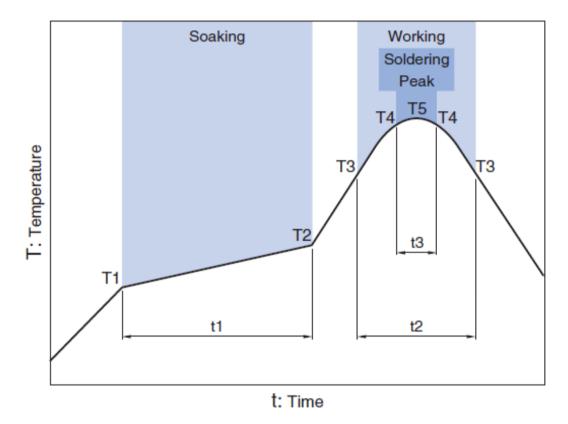
RoHS Statement RoHS Compliance



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RECOMMENDED REFLOW PROFILE

Pb free solder



	Soa	Soaking Working		Sold	Soldering		
Temp. Time		Temp.	Temp. Time		Temp. Time		
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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TDK:

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