

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

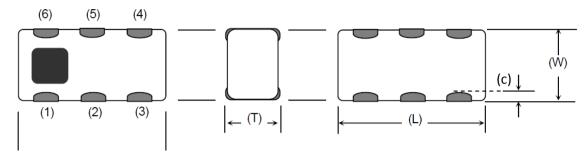
DPX Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DPX165850DT-8040A3**

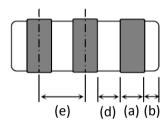
DPX165850DT-8040A3

SHAPES AND DIMENSIONS

[Top View] [Bottom View]



[Side View]



Dimensions (mm)

	.0.00	\					
L	W	Т	а	b	С	d	е
1.60	0.80	0.60	0.30	0.10	0.15	0.25	0.55
+/-0.15	+/-0.15	+/-0.10	+/-0.15	+/-0.10	+/-0.10	+/-0.10	+/-0.10

Terminal functions

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

(6)	Low-Band Port
(0)	Low-Dand Fort

TEMPERATURE RANGE

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



DPX165850DT-8040A3

ELECTRICAL CHARACTERISTICS

(Measurement)

Low-Band

Doromotor	Frequency (MHz)			TDK Spec		
Parameter				Min.	Тур.	Max.
Insertion Loss (dB)	2400	to	2500	-	0.59	0.75
Attenuation (dB)	4800	to	5000	23.0	29.0	-
	7200	to	7500	30.0	49.0	-

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

High-Band

Parameter	Frequency (MHz)			TDK Spec		
Parameter				Min.	Тур.	Max.
Insertion Loss (dB)	5150	to	5850	-	1.48	1.90
Attenuation (dB)	2400	to	2500	25.0	34.0	-
	3400	to	3900	15.0	20.0	-
	3600	to	3600	19.0	30.0	-
	7200	to	7200	19.0	27.0	-
	7250	to	7550	23.0	29.0	-
	10600	to	11700	30.0	42.0	-
	15300	to	16200	20.0	27.0	-

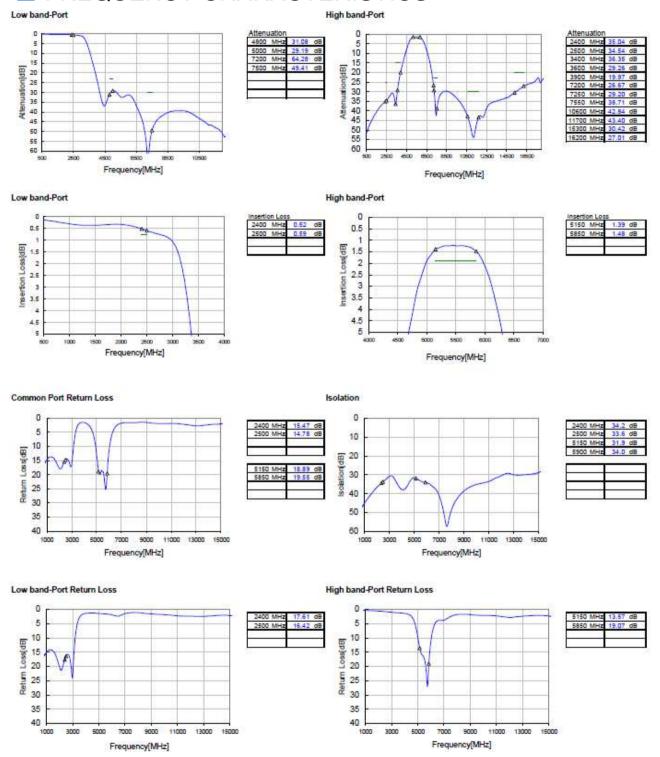
 $Ta = +25 + /-5 ^{\circ}C$

We recommend to terminate for all port with 50ohm at all times.



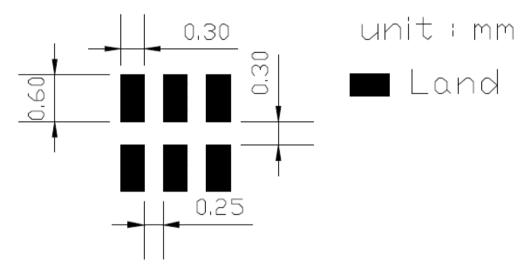
DPX165850DT-8040A3

FREQUENCY CHARACTERISTICS



DPX165850DT-8040A3

RECOMMENDED LAND PATTERN



Note:

Line width be designed to match 50 Ohm characteristic impedance, depending on PCB material and thickness.

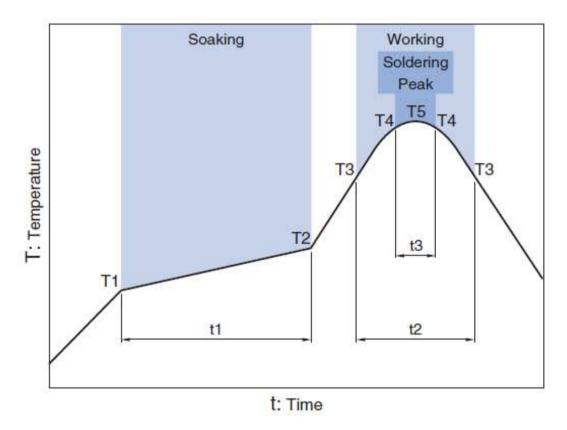
ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

DPX165850DT-8040A3

RECOMMENDED REFLOW PROFILE

Pb free solder



	Soaking		V	Working		Soldering	
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.

- 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.