

Multilayer Diplexer

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

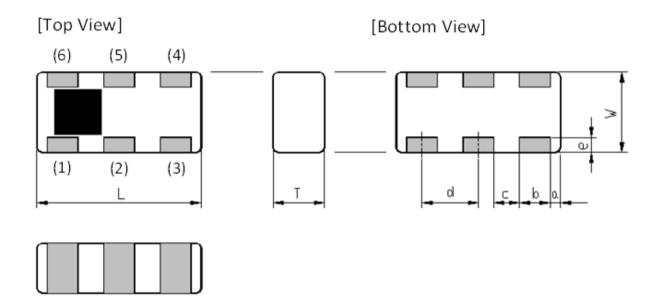
DPX Series 1.6x0.8mm [EIA 0603] TYPE

P/N: **DPX165950DT-8148A1**



DPX165950DT-8148A1

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	0.15
+/-0.15	+/-0.15	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10

Terminal functions

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

(4)	GND
(5)	Common Port
(6)	GND

TEMPERATURE RANGE

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

DPX165950DT-8148A1

ELECTRICAL CHARACTERISTICS

(Measurement)

Low-Band

Parameter	Frequency (MHz)			TDK Spec			
rarameter				Min.	Тур.	Max.	
Insertion Loss (dB)	2400	to	2500	-	0.23	0.35	
Insertion Loss (dB)	2400	to	2500	-	0.30	0.45	
(-40 to +85 °C)							
VSWR	2400	to	2500	1	1.14	1.6	
Attenuation (dB)	4800	to	5000	21	25	-	
	5000	to	5950	23	27	-	
	7200	to	7500	25	36	-	

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

High-Band

Parameter	Parameter Frequency (MHz		/N/U-/	TDK Spec		
Farameter	riequelicy (Minz)			Min.	Тур.	Max.
Insertion Loss (dB)	4900	to	5950	ı	0.45	0.60
Insertion Loss (dB)	4900	to	5950	-	0.50	0.67
(-40 to +85 °C)						
VSWR	4900	to	5950	-	1.28	1.7
Attenuation (dB)	824	to	2170	27	32	-
	2400	to	2500	32	42	-
	8100	to	8900	10	12	-
	9800	to	11900	25	29	-

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

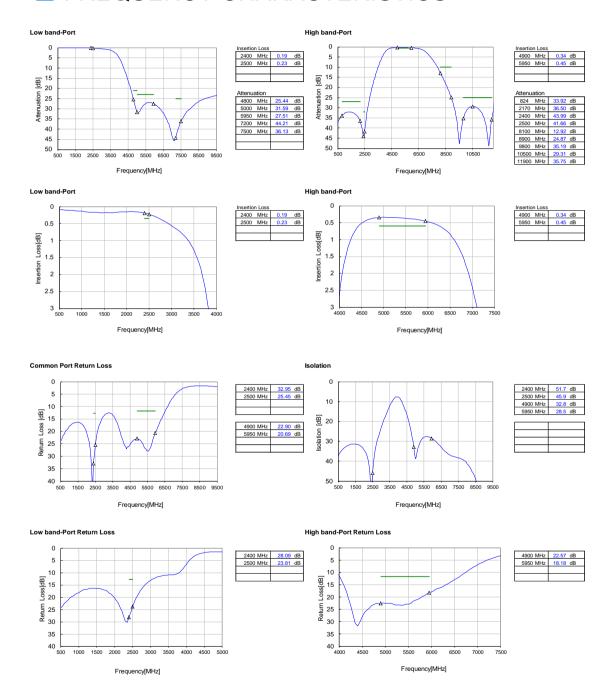
Common

Parameter	Eroguo	nov	/MILI-1	TDK Spec		
raiailletei	Frequency (MHz)			Min.	Тур.	Max.
VSWR	2400	to	2500	-	1.11	1.6
	4900	to	5950	ı	1.20	1.7



DPX165950DT-8148A1

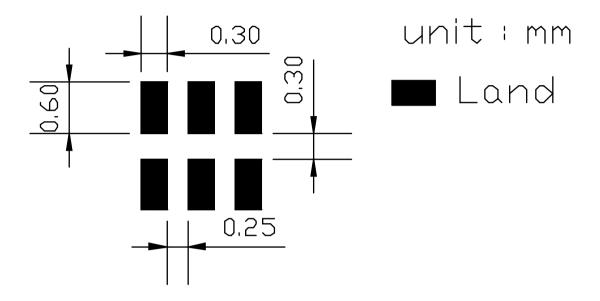
■ FREQUENCY CHARACTERISTICS





DPX165950DT-8148A1

RECOMMENDED LAND PATTERN



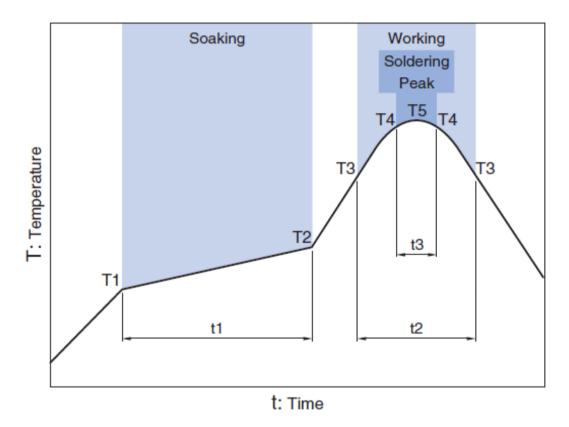
ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

DPX165950DT-8148A1

■ RECOMMENDED REFLOW PROFILE

Pb free solder



l	Soaking		V	Vorking	Sold	Peak		
	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.

- 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Signal Conditioning category:

Click to view products by TDK manufacturer:

Other Similar products are found below:

MAPDCC0004 PD0409J5050S2HF 880157 HHS-109-PIN DC1417J5005AHF DC4859J5005AHF AFS14A30-2185.00-T3 AFS14A35-1591.50-T3 DS-323-PIN DSS-313-PIN B39321R801H210 B39321R821H210 B39921B4317P810 1A0220-3 2089-6207-00 JP510S LFB212G45SG8C341 LFB322G45SN1A504 LFL182G45TC3B746 SF2159E 30057 1P510S CER0813B 3A325 40287 41180 ATB3225-75032NCT B69842N5807A150 BD0810N50100AHF BD2326L50200AHF BD2425J50200AHF HMC189AMS8TR C5060J5003AHF JHS-114-PIN JP503AS DC0710J5005AHF DC2327J5005AHF DC3338J5005AHF 43020 LFB2H2G60BB1C106 LFL15869MTC1B787 X3C19F1-20S XC3500P-20S 10013-20 SF2081E SF2194E SF2238E CDBLB455KCAX39-B0 RF1353C PD0922J5050D2HF