Chipsmall

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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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Multilayer Diplexer

For 2400-2496MHz / 5150-5950MHz

DPX165950DT-8060A1

1.6x0.8mm [EIA 0603]*

* Dimensions Code JIS[EIA]

Multilayer Diplexer

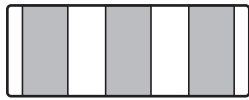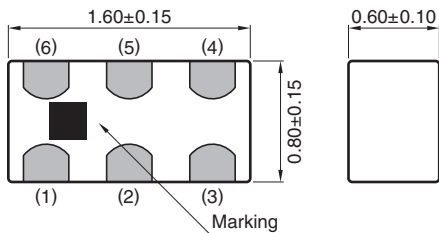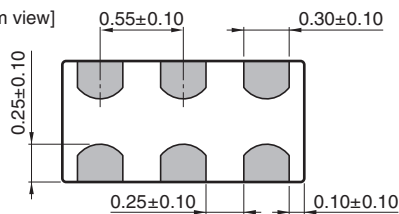**Conformity to RoHS Directive**

For 2400-2496MHz / 5150-5950MHz

DPX165950DT-8060A1

■SHAPES AND DIMENSIONS

[Top view]

1.60±0.15

(6) (5) (4)

(1) (2) (3)

0.80±0.15

Marking

0.60±0.10

[Bottom view]

0.55±0.10   0.30±0.10

0.25±0.10

0.25±0.10   0.10±0.10

Terminal functions

1	GND
2	Common
3	GND
4	High-band
5	GND
6	Low-band

Dimensions in mm

■RECOMMENDED LAND PATTERN

0.30

0.60

0.30

0.25
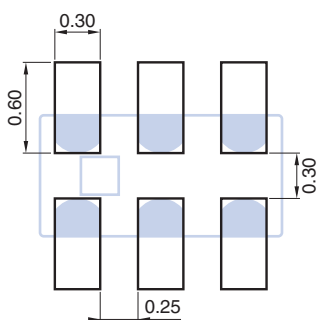
Dimensions in mm

○RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/

• All specifications are subject to change without notice.
• Before using these products, be sure to request the delivery specifications.

DPX165950DT-8060A1

■ ELECTRICAL CHARACTERISTICS

□ LOW-BAND

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400 to 2496	—	0.51	0.65
Return Loss (dB)	2400 to 2496	10	13	—
Attenuation (dB)	4800 to 5000	32	43	—
	7200 to 7500	15	24	—
Characteristic Impedance (Ω)			50 (Nominal)	

・Ta: +25±5°C

□ HIGH-BAND

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	5150 to 5950	—	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	—
Characteristic Impedance (Ω)			50 (Nominal)	

・Ta: +25±5°C

■ TEMPERATURE RANGE

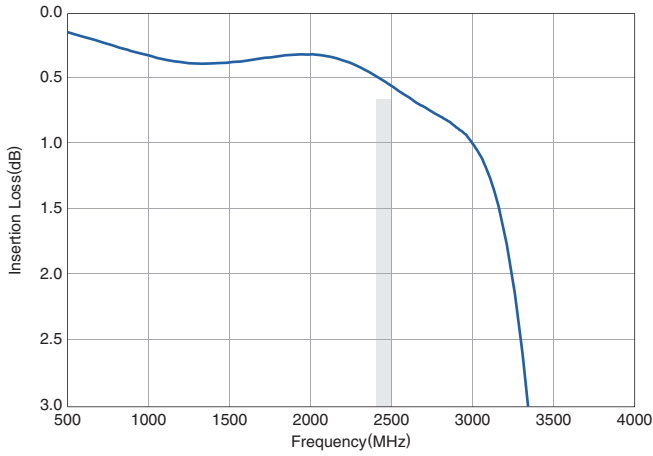| Operating temperature (°C)	Storage temperature (°C)
−40 to +85	−40 to +85

• All specifications are subject to change without notice.
• Before using these products, be sure to request the delivery specifications.
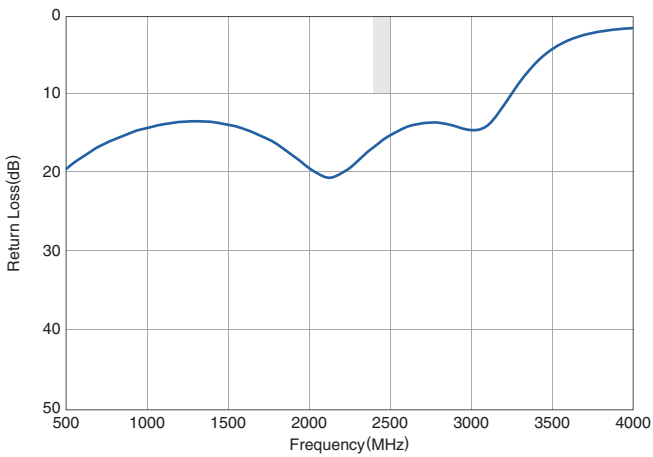
DPX165950DT-8060A1
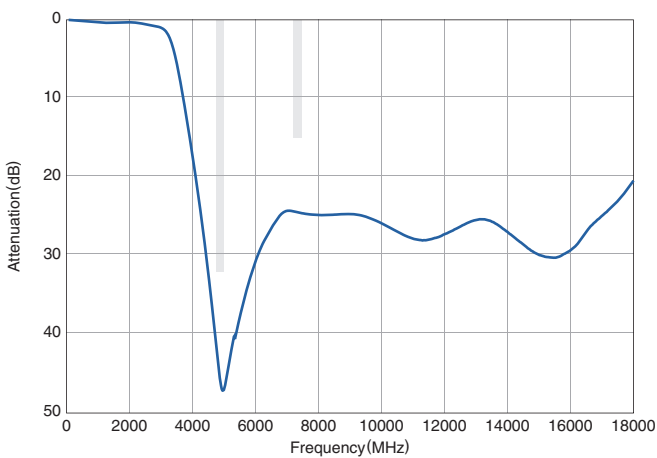
■ FREQUENCY CHARACTERISTICS

□LOW-BAND
Insertion Loss

Return Loss

Attenuation

□HIGH-BAND
Insertion Loss

Return Loss

Attenuation

• All specifications are subject to change without notice.
• Before using these products, be sure to request the delivery specifications.

DPX165950DT-8060A1
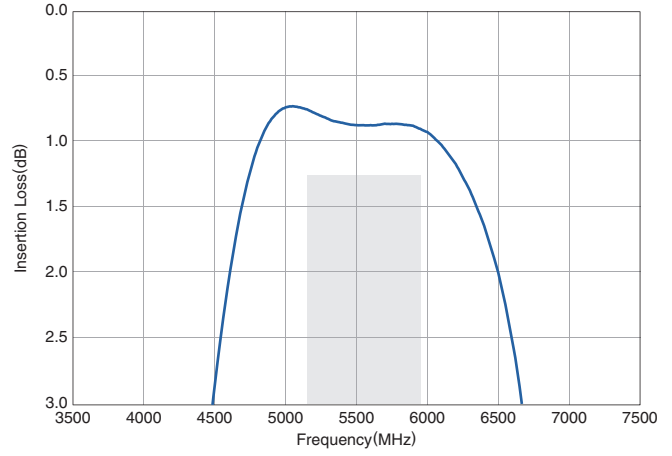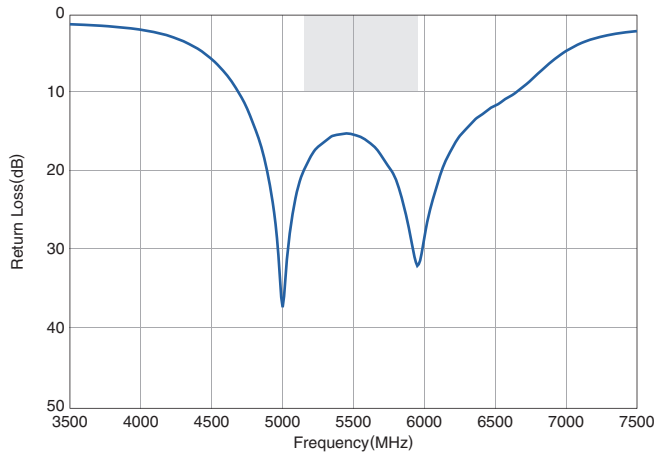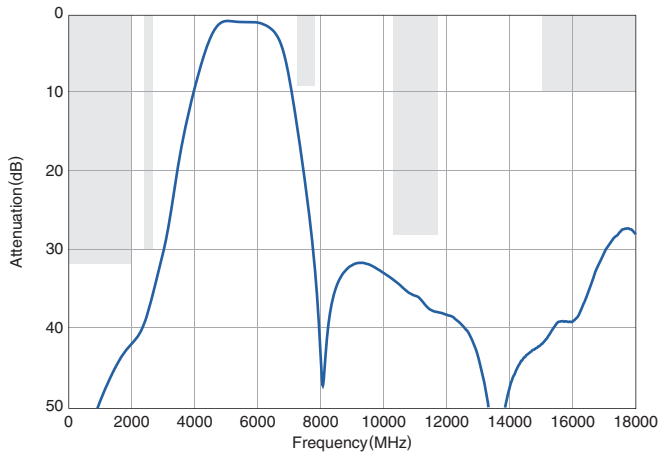
■**FREQUENCY CHARACTERISTICS**
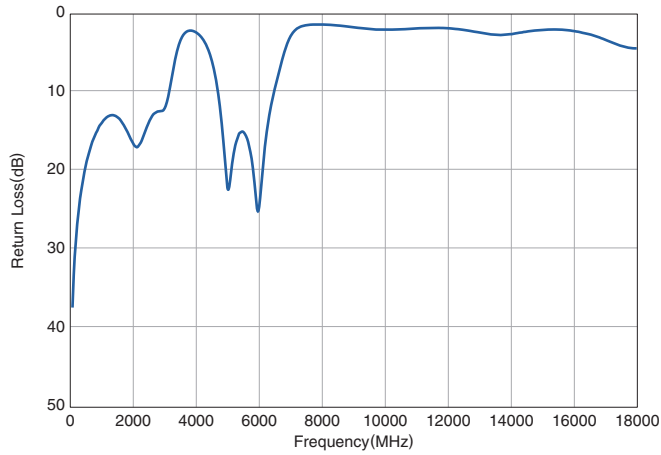
□**COMMON**

Return Loss

Isolation

• All specifications are subject to change without notice.

• Before using these products, be sure to request the delivery specifications.
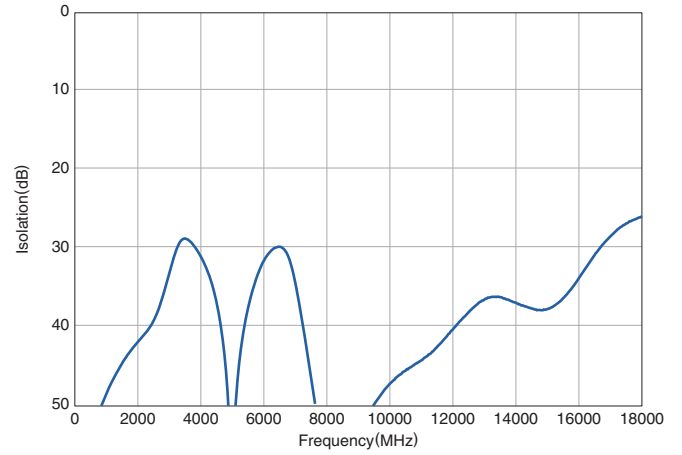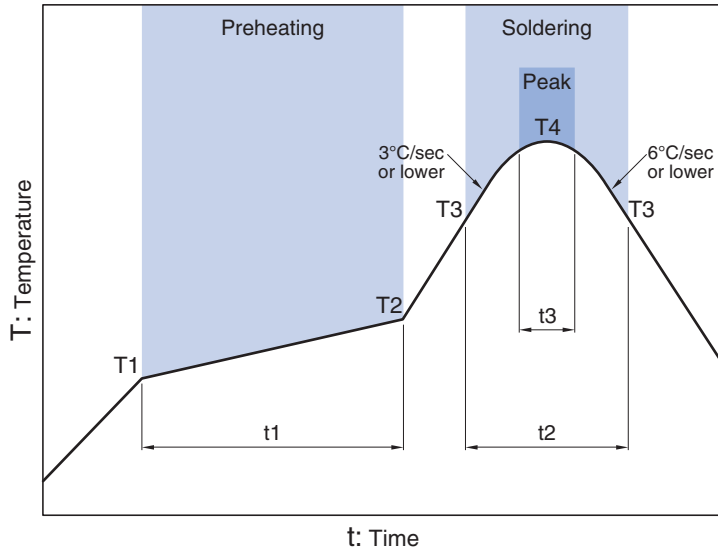
DPX165950DT-8060A1

■RECOMMENDED REFLOW PROFILE

Preheating			Soldering			
			Critical zone (T3 to T4)		**Peak**	
Temp.		**Time**	**Temp.**	**Time**	**Temp.**	**Time**
T1	**T2**	**t1**	**T3**	**t2**	**T4**	**t3***
150°C	200°C	60 to 120sec	217°C	60 to 120sec	240 to 260°C	30sec max.

*t3 : Time within 5°C of actual peak temperature
The maximum number of reflow is 3.

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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 catalog 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 catalog.

(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.