



Multilayer Diplexer

For 1565-1585MHz / 2400-2500MHz

DPX162500DT-8014A1

1.6x0.8mm [EIA 0603]*

* Dimensions Code JIS[EIA]

Caution

**The products in this catalog will be or have been
stopped production**

Discontinue Issue Date	May. 26, 2025
Last Purchase Order Date	Mar. 31, 2026
Last Shipment Date	Jun. 30, 2026

Please refer to our Web site about replacement information.

Multilayer Diplexer

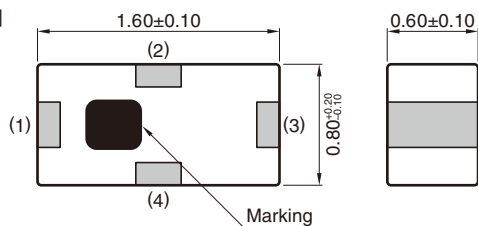
Conformity to RoHS Directive

For 1565-1585MHz / 2400-2500MHz

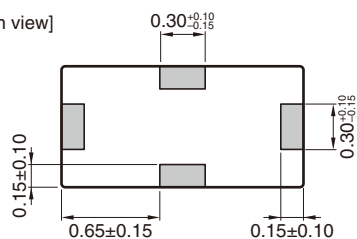
DPX162500DT-8014A1

SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

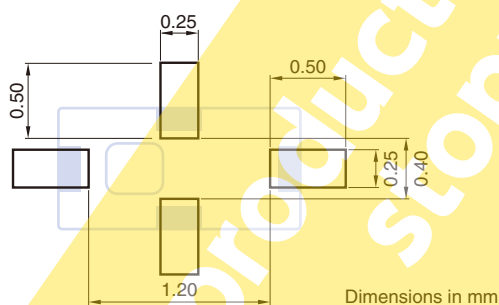


Dimensions in mm

Terminal functions

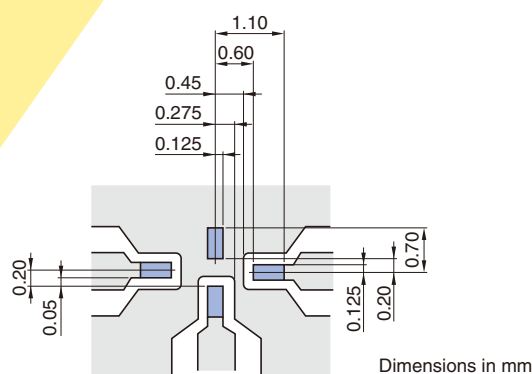
1	Low-band
2	GND
3	High-band
4	Common

RECOMMENDED LAND PATTERN



Dimensions in mm

EVALUATION BOARD



Dimensions in mm

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

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.

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ELECTRICAL CHARACTERISTICS

LOW-BAND

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	1565 to 1585	—	0.47	0.65
	1565 to 1585	—	—	0.75 (–40 to +85°C)
Return Loss (dB)	1565 to 1585	9.54	27.8	—
Attenuation (dB)	2400 to 2500	20	25.8	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

HIGH-BAND

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400 to 2500	—	0.51	0.80
	2400 to 2500	—	—	0.90 (–40 to +85°C)
Return Loss (dB)	2400 to 2500	9.54	17.1	—
Attenuation (dB)	1565 to 1585	20	27.9	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

COMMON

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return Loss (dB)	1565 to 1585	9.54	19.9	—
	2400 to 2500	9.54	15.2	—
Power Handling (W)		—	—	3
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

TEMPERATURE RANGE

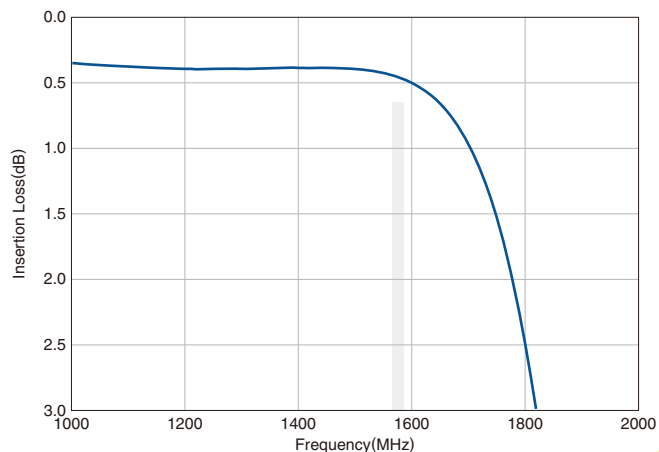
Operating temperature (°C)	Storage temperature (°C)
–40 to +85	–40 to +85

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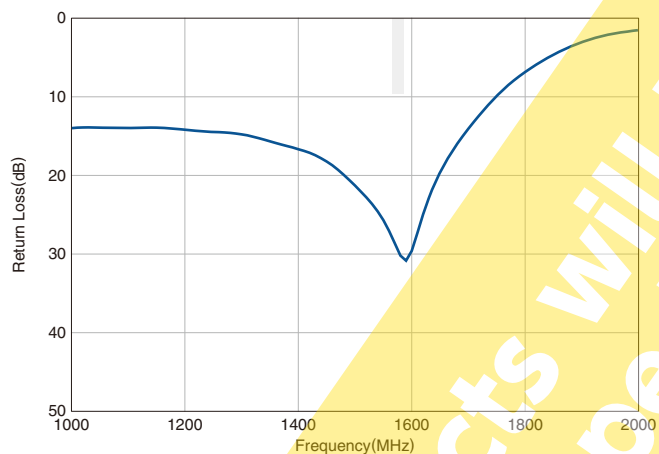
FREQUENCY CHARACTERISTICS

LOW-BAND

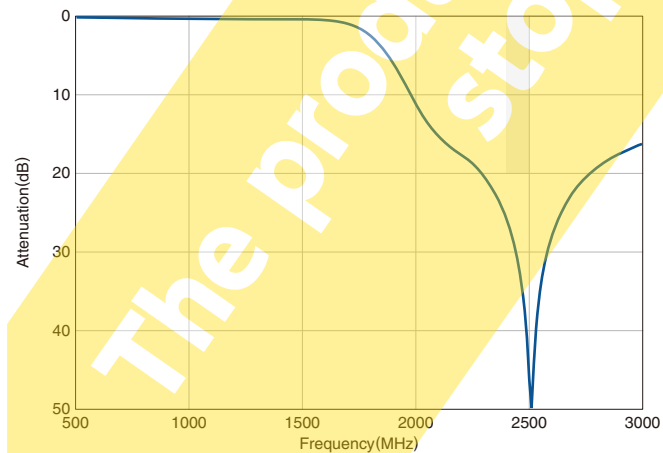
Insertion Loss



Return Loss

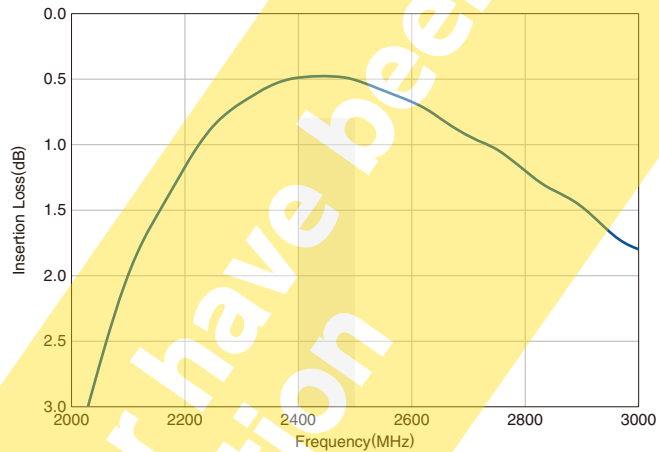


Attenuation

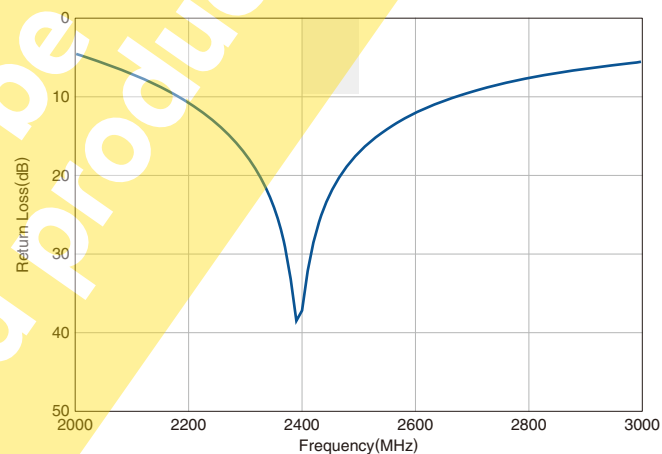


HIGH-BAND

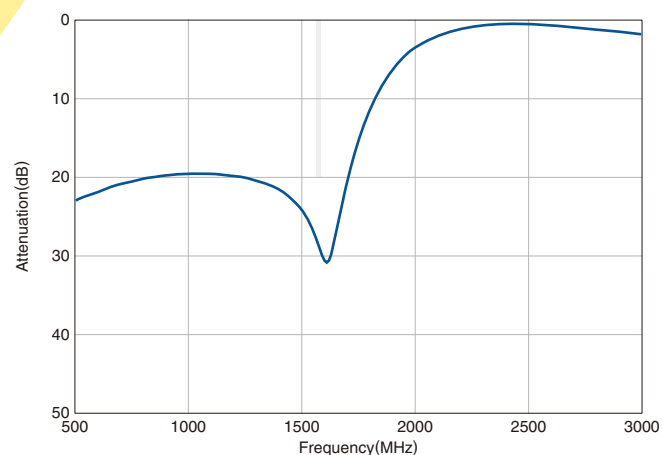
Insertion Loss



Return Loss



Attenuation



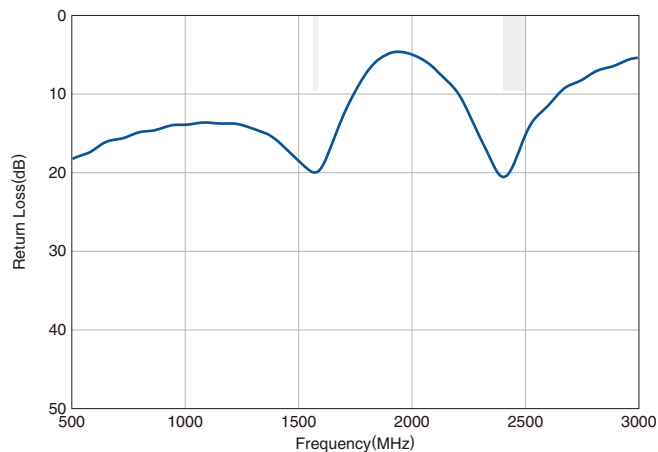
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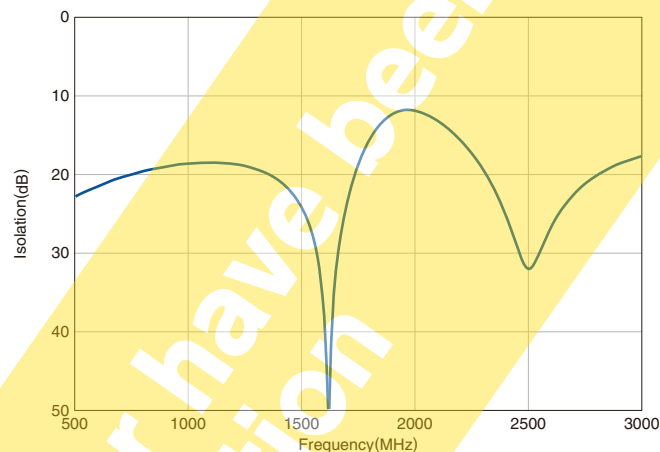
■ FREQUENCY CHARACTERISTICS

□ COMMON

Return Loss



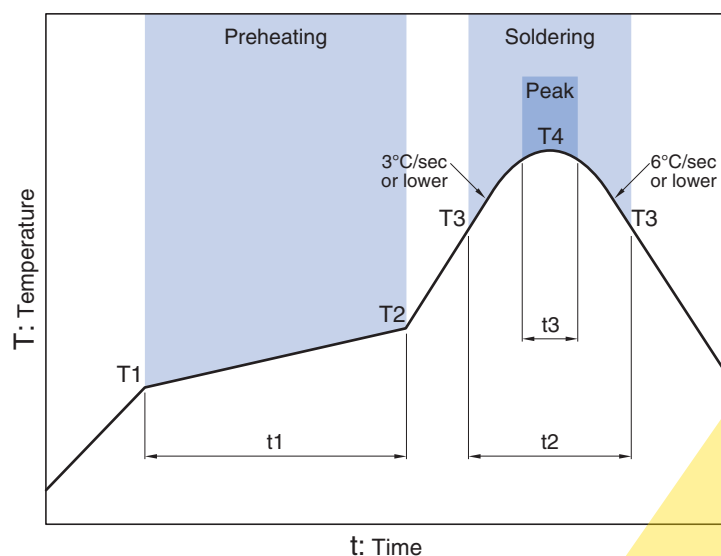
Isolation



The products will be or have been stopped production

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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.

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 | (8) Public information-processing equipment |
| (2) Transportation equipment (cars, electric trains, ships, etc.) | (9) Military equipment |
| (3) Medical equipment | (10) Electric heating apparatus, burning equipment |
| (4) Power-generation control equipment | (11) Disaster prevention/crime prevention equipment |
| (5) Atomic energy-related equipment | (12) Safety equipment |
| (6) Seabed equipment | (13) Other applications that are not considered general-purpose applications |
| (7) Transportation control equipment | |

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.