

June 2015

# Multilayer Band Pass Filter (Balance Output Type) For 2400-2500MHz

## DEA202450BT-7077A1

2.0x1.25mm [EIA 0805]\*

\* Dimensions Code JIS[EIA]



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

Discontinue Issue Date	Jun. 3, 2022	
Last Purchase Order Date	Mar. 31, 2023	
Last Shipment Date	Mar. 31, 2024	

Please refer to our Web site about replacement information.

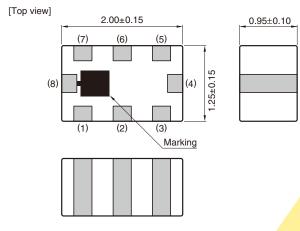


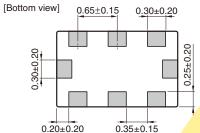
## Multilayer Band Pass Filter (Balance Output Type) For 2400-2500MHz

**Conformity to RoHS Directive** 

## **DEA202450BT-7077A1**

#### SHAPES AND DIMENSIONS





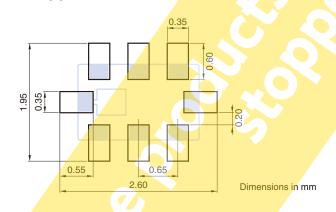
#### Terminal functions

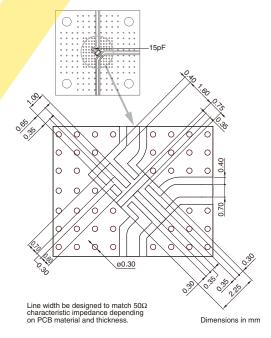
- 2 DC feed + RE GND or
- 3 NC
- 4 GND
- 5 Balanced port
- 7 Balanced port
- O GIVE

Dimensions in mm

### ■ RECOMMENDED LAND PATTERN

#### **EVALUATION BOARD**





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

<sup>•</sup> All specifications are subject to change without notice.

<sup>•</sup> Before using these products, be sure to request the delivery specifications.



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#### **ELECTRICAL CHARACTERISTICS**

Frequency Range (MHz)	Min.	Тур.	Max.
Unbalanced Port Characteristic Impedance (Ω)			
Balanced Port Characteristic Impedance (Ω)			
2400 to 2500	_	<u> </u>	3.5
2400 to 2500	_	_	3.8 (-40 to +85°C)
880 to 960	40	-	_
1710 to 1880	38	_	_
1880 to 1990	38		_
2110 to 2170	17	- 7	_
4800 to 5000	25	A 1	_
7200 to 7500	27	+	_
2400 to 2500	9		_
2400 to 2500	9		_
2400 to 2500	170		190
2400 to 2500	-1	<u> </u>	1 /
	2400 to 2500 2400 to 2500 2400 to 2500 880 to 960 1710 to 1880 1880 to 1990 2110 to 2170 4800 to 5000 7200 to 7500 2400 to 2500 2400 to 2500 2400 to 2500	(MHz)     Min.       2400 to 2500     —       2400 to 2500     —       880 to 960     40       1710 to 1880     38       1880 to 1990     38       2110 to 2170     17       4800 to 5000     25       7200 to 7500     27       2400 to 2500     9       2400 to 2500     9       2400 to 2500     170	Min.   Typ.

<sup>•</sup> Ta: +25±5°C

#### **■TEMPERATURE RANGE**

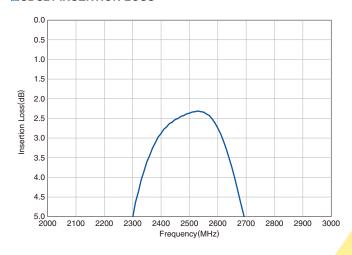
Operating temperature	Storage temperature		
(°C)	(°C)	<b>V 4</b>	
-40 to +85	-40 to +85		
		$\mathcal{F}$	

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### DEA202450BT-7077A1

#### FREQUENCY CHARACTERISTICS

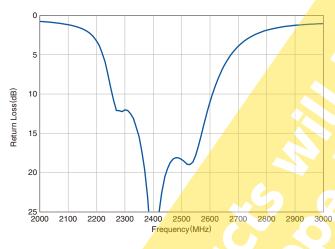
#### **□SDS21 INSERTION LOSS**



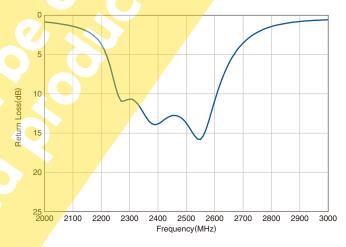
#### **□SDS21 ATTENUATION**



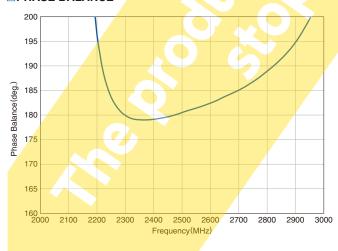
#### **□SSS11 RETURN LOSS at UNBALANCE PORT**



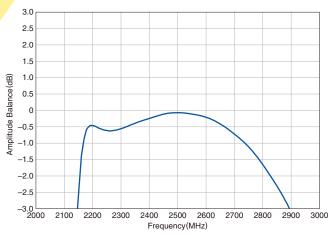
#### □SDD22 RETURN LOSS at BALANCE PORT



#### □PHASE BALANCE

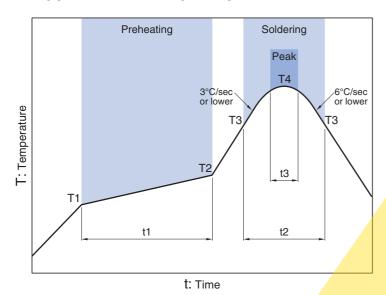


#### □AMPLITUDE BALANCE



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#### ■ RECOMMENDED REFLOW PROFILE



Preheating		Soldering				
		Critical zone (T3 to T4)		Peak		
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	t3*
150°C	200°C	60 to 120sec	217°C	60 to 120s	sec 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.

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