

June 2015

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

DEA212450BT-7031A1

2.0x1.5mm

* Dimensions Code JIS

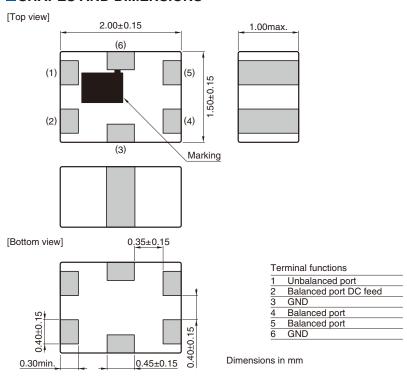


Multilayer Band Pass Filter (Balance Output Type) For 2400–2500MHz

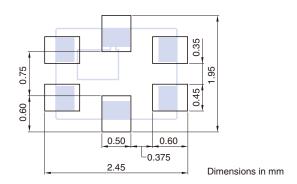
Conformity to RoHS Directive

DEA212450BT-7031A1

SHAPES AND DIMENSIONS



■ RECOMMENDED LAND PATTERN



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.



DEA212450BT-7031A1

ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Unbalanced Port Characteristic Impedance (Ω)	50 (Nominal)			
Balanced Port Characteristic Impedance (Ω)		50 (Nominal)		
Insertion Loss (dB)	2400 to 2500	_	_	2.7
	2400 to 2500	_	_	3.0 (-30 to +85°C)
	DC to 915	34	40	_
	1570 to 1580	30	36	_
	1710 to 1850	33	37	_
Attonuation (dP)	1850 to 1910	37	42	_
Attenuation (dB)	1920 to 1990	27	32	_
	2110 to 2170	10	14	_
	4800 to 5000	15	18	_
	7200 to 7500	20	40	_
Return Loss at Unbalanced Port (dB)	2400 to 2500	10	_	_
Return Loss at Balanced Port (dB)	2400 to 2500	10	_	_
Phase Balance (deg.)	2400 to 2500	165	_	195
Amplitude Balance (dB)	2400 to 2500	-1.5	_	1.5

[·] Ta: +25±5°C

TEMPERATURE RANGE

Operating temperature	Storage temperature		
(°C)	(°C)		
-30 to +85	-30 to +85		

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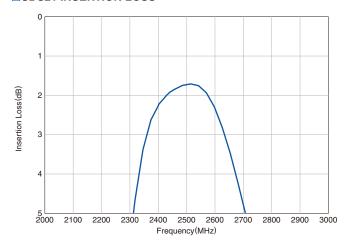
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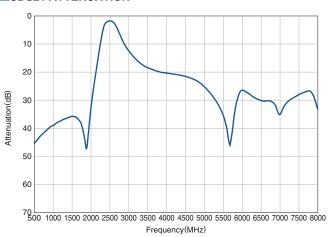
DEA212450BT-7031A1

FREQUENCY CHARACTERISTICS

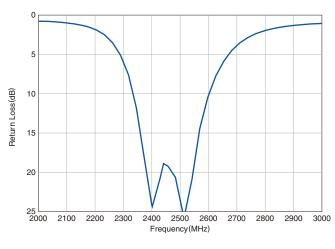
□SDS21 INSERTION LOSS



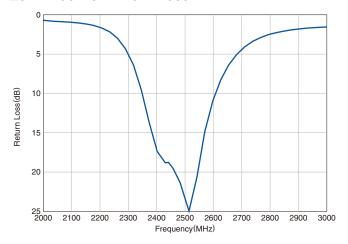
□SDS21 ATTENUATION



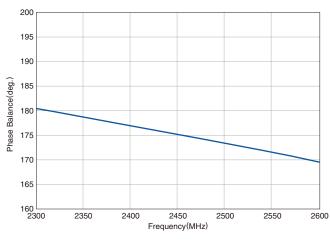
□SSS11 INPUT RETURN LOSS



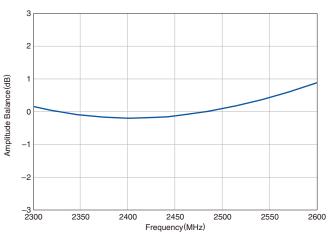
□SDD22 OUTPUT RETURN LOSS



□PHASE BALANCE



□AMPLITUDE BALANCE

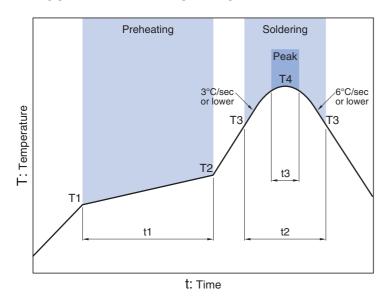


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■ RECOMMENDED REFLOW PROFILE



Preheating		Soldering				
			Critical zone (T3 to T4)		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	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.

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