

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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June 2015

Multilayer Band Pass Filter (Balance Output Type)
For 2402–2480MHz

DEA202450BT-7099A1

2.0x1.25mm [EIA 0805]*

* Dimensions Code JIS[EIA]

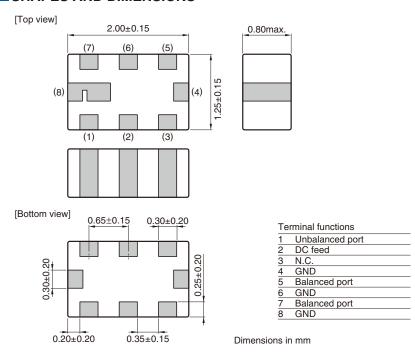


Multilayer Band Pass Filter (Balance Output Type) For 2402–2480MHz

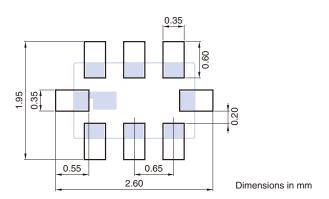
Conformity to RoHS Directive

DEA202450BT-7099A1

SHAPES AND DIMENSIONS



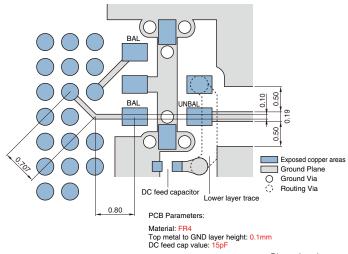
■ RECOMMENDED LAND PATTERN



Note1: Pin 2 of the filter provides a DC feed connection to the balanced ports. In the event that thisfunction is used, Pin 2 should be connected to ground using a de-coupling capacitor.

Note2: In the event that the pin 2 function is not used, the pin should be left unconnected.

EVALUATION BOARD



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.



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ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Unbalanced Port Characteristic Impedance (Ω)		50 (Nominal)		
Balanced Port Characteristic Impedance (Ω)		Matched to CSR BC04 IC		
Insertion Loss (dB)	2402 to 2480	_	_	3
	880 to 960	35	_	_
Attenuation (dB)	1710 to 1880	22	_	_
Alteridation (db)	1880 to 1910	20	_	_
	4804 to 4960	18	_	_
Return Loss at Unbalanced Port (dB)	2402 to 2480	8.5	_	_
Return Loss at Balanced Port (dB)	2402 to 2480	8.5	_	_
Phase Balance (deg.)	2402 to 2480	170	_	190
Amplitude Balance (dB)	2402 to 2480	-2	_	2

[·] Ta: +25±5°C

TEMPERATURE RANGE

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

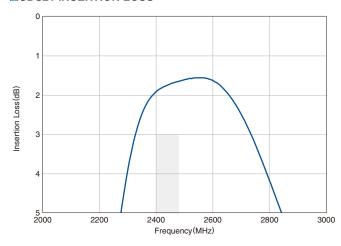
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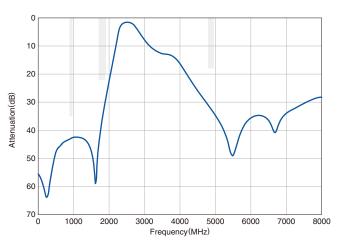
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■ FREQUENCY CHARACTERISTICS

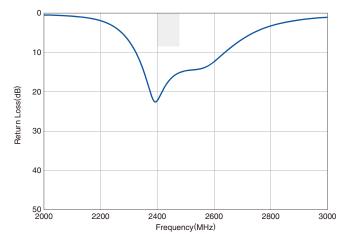
□SDS21 INSERTION LOSS



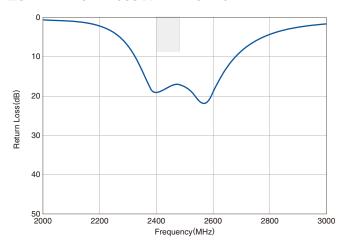
□SDS21 ATTENUATION



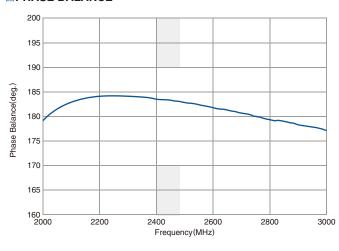
□SSS11 RETURN LOSS at UNBALANCE PORT



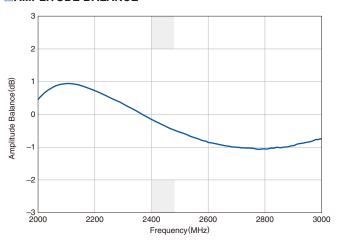
□SDD22 RETURN LOSS at BALANCE PORT



□PHASE BALANCE



□AMPLITUDE BALANCE



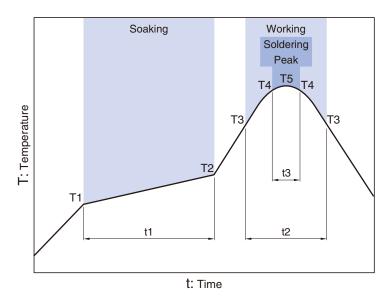
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■ RECOMMENDED REFLOW PROFILE



Soaking			Working		Soldering Peak		
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120s	230°C	more than 30s	247 to 253°C	within 10s	260°C max.

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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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