

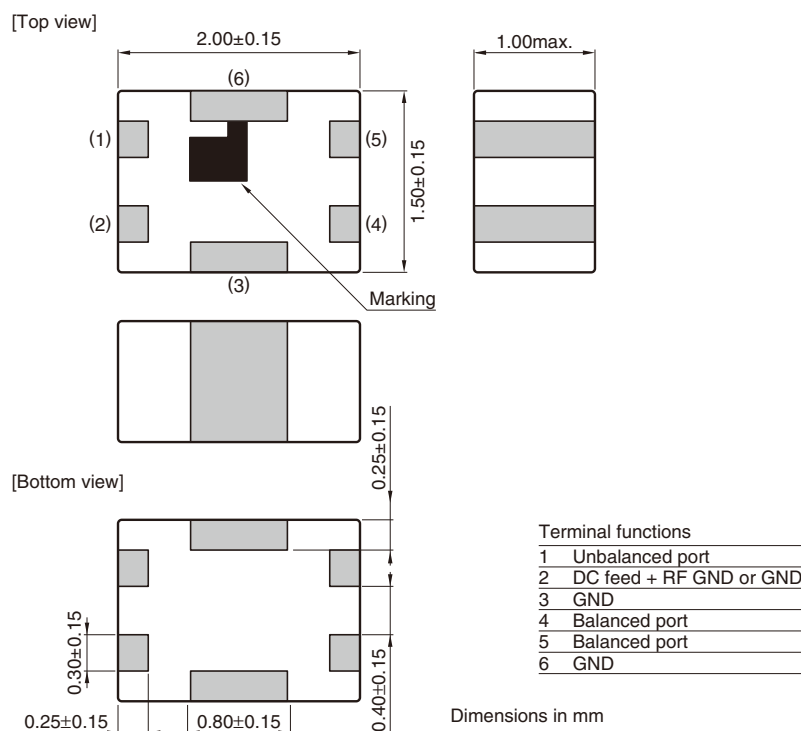
# Multilayer Band Pass Filter (Balance Output Type)

Conformity to RoHS Directive

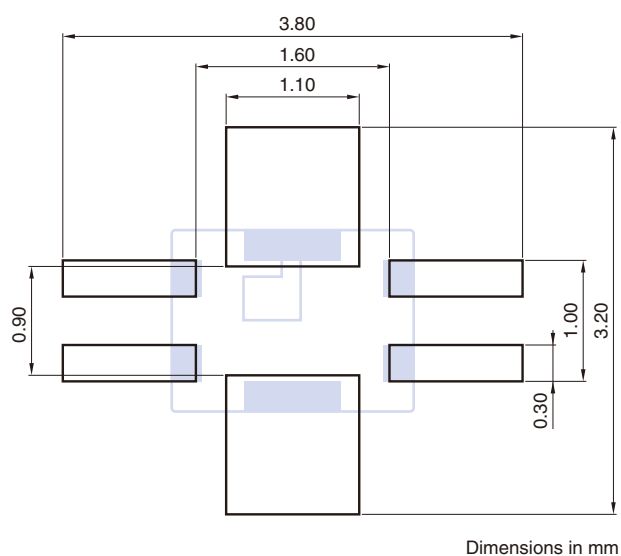
For 2300-2690MHz

## DEA212495BT-7212A1

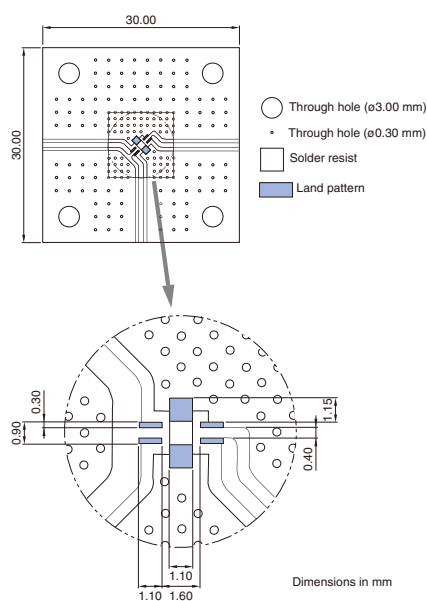
### SHAPES AND DIMENSIONS



### RECOMMENDED LAND PATTERN



### EVALUATION BOARD



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.

# DEA212495BT-7212A1

## ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Unbalanced Port Characteristic Impedance ( $\Omega$ )			50 (Nominal)	
Balanced Port Characteristic Impedance ( $\Omega$ )			50 (Nominal)	
Insertion Loss (dB)	2300 to 2690	—	—	2.8
	2300 to 2690	—	—	3.1 (−40 to +85°C)
Attenuation (dB)	DC to 800	15	—	—
	800 to 960	35	—	—
	960 to 1700	15	—	—
	1700 to 1900	15	—	—
	1900 to 1980	10	—	—
	4900 to 5900	30	—	—
	5900 to 11000	15	—	—
Return Loss at Unbalanced Port (dB)	2300 to 2690	7	—	—
Phase Balance (deg.)	2300 to 2690	165	—	195
Amplitude Balance (dB)	2300 to 2690	−1.5	—	1.5

• Ta: +25±5°C

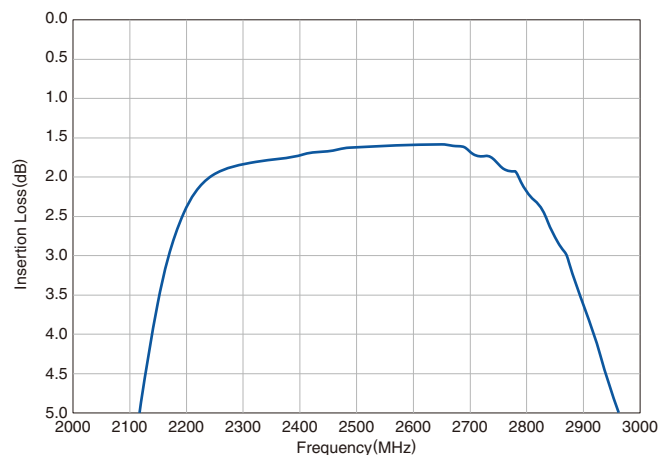
## TEMPERATURE RANGE

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

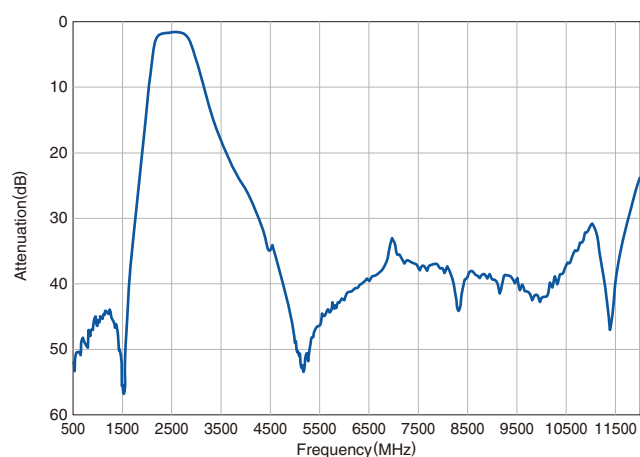
# DEA212495BT-7212A1

## FREQUENCY CHARACTERISTICS

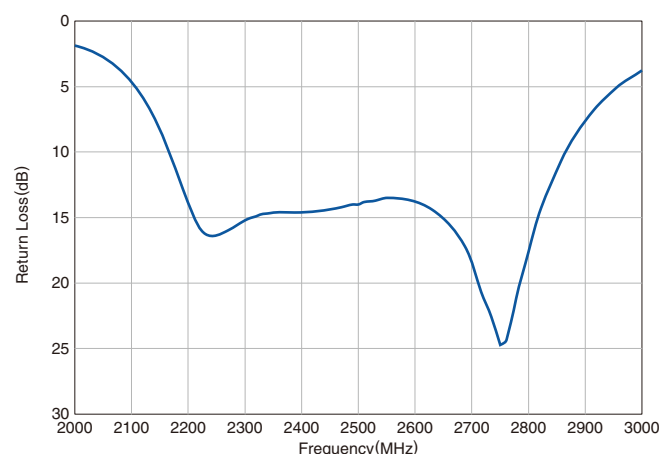
### SDS21 INSERTION LOSS



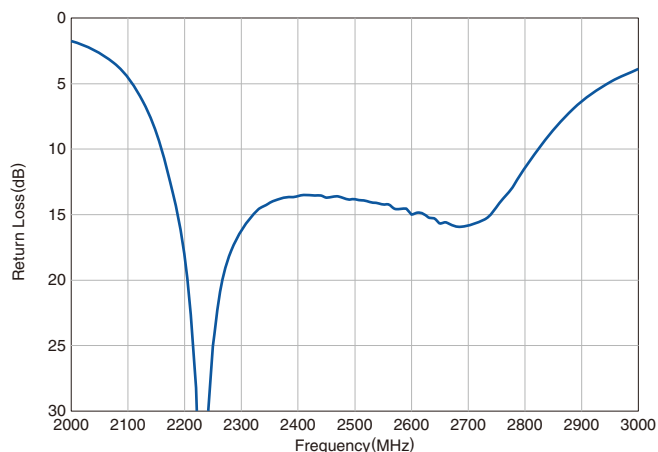
### SDS21 ATTENUATION



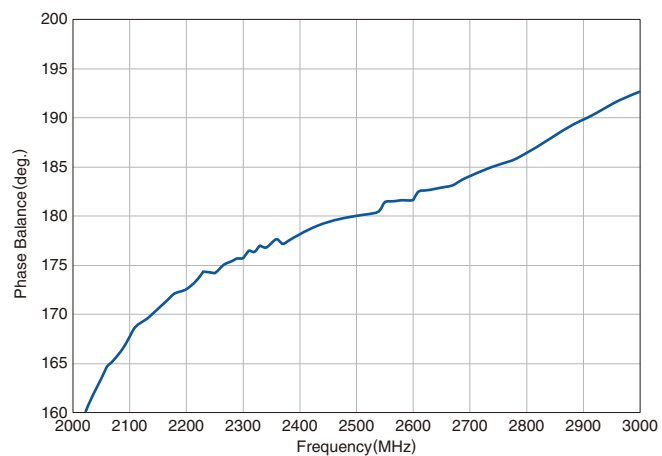
### SSS11 RETURN LOSS at UNBALANCE PORT



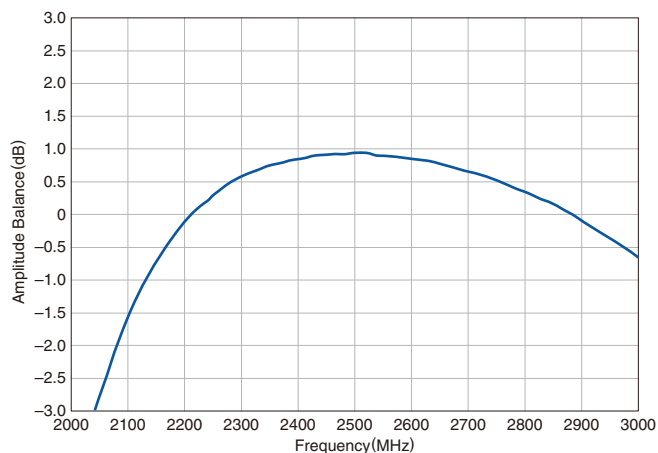
### SDD22 RETURN LOSS at BALANCE PORT



### PHASE BALANCE

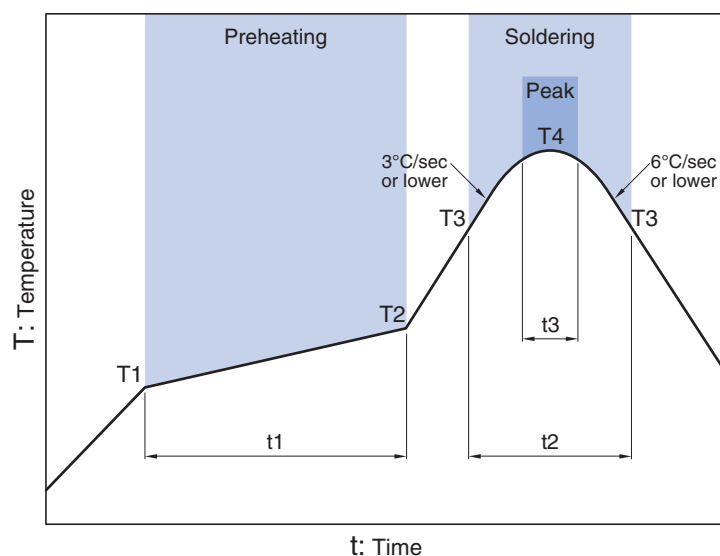


### AMPLITUDE BALANCE



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## RECOMMENDED REFLOW PROFILE



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