



# Multilayer Band Pass Filter (Balance Output Type)

For 3400–3800MHz

# DEA203600BT-7127E3

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**2.0x1.25mm [EIA 0805]\***

\* Dimensions Code JIS[EIA]

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# Multilayer Band Pass Filter (Balance Output Type)

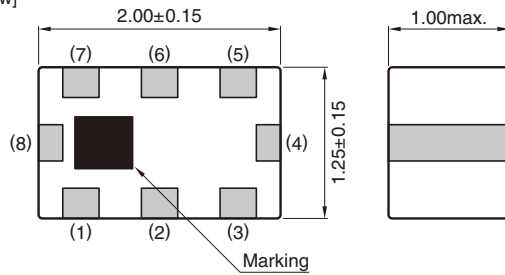
Conformity to RoHS Directive

For 3400–3800MHz

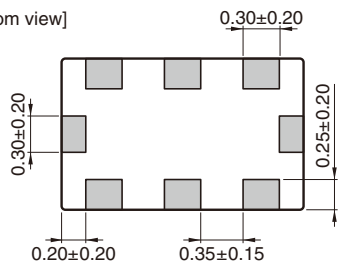
## DEA203600BT-7127E3

### SHAPES AND DIMENSIONS

[Top view]



[Bottom view]

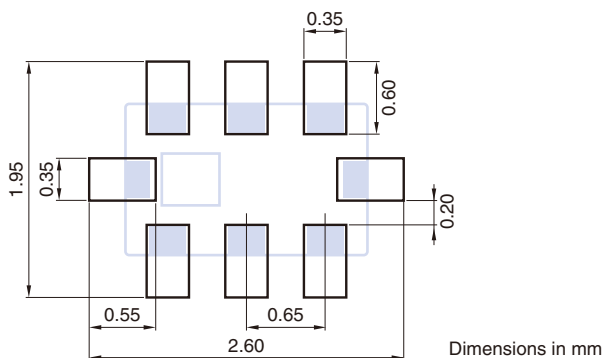


Terminal functions

1	Unbalanced port
2	N.C.
3	N.C.
4	GND
5	Balanced port
6	GND
7	Balanced port
8	GND

Dimensions in mm

### RECOMMENDED LAND PATTERN



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.

## DEA203600BT-7127E3

### ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Unbalanced Port Characteristic Impedance ( $\Omega$ )		—	50 (Nominal)	—
Balanced Port Characteristic Impedance ( $\Omega$ )		—	100 (Nominal)	—
Insertion Loss (dB)	3400 to 3800	—	1.5	2.4
Ripple (dB)	3400 to 3800	—	0.1	2.0
Attenuation (dB)	500 to 800	15	52	—
	800 to 960	25	50	—
	1700 to 1900	27	45	—
	1900 to 1980	27	45	—
	2300 to 2690	15	29	—
	5150 to 5875	15	28	—
Return Loss at Unbalanced Port (dB)	3400 to 3800	9	12.6	—
Phase Balance (deg.)	3400 to 3800	160	181	200
Amplitude Balance (dB)	3400 to 3800	—	0.2	2.0

· Ta: +25±5°C

### TEMPERATURE RANGE

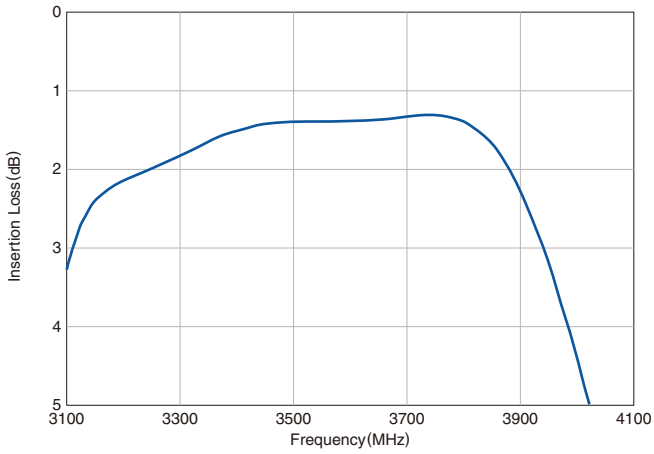
Operating temperature (°C)	Storage temperature (°C)
-40 to +85	-40 to +85

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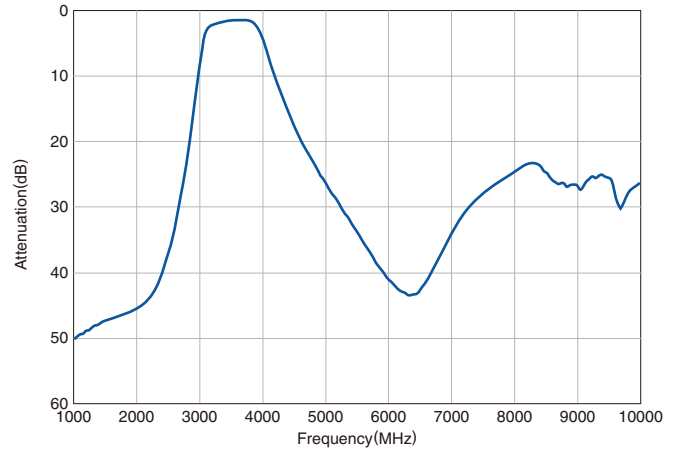
# DEA203600BT-7127E3

## FREQUENCY CHARACTERISTICS

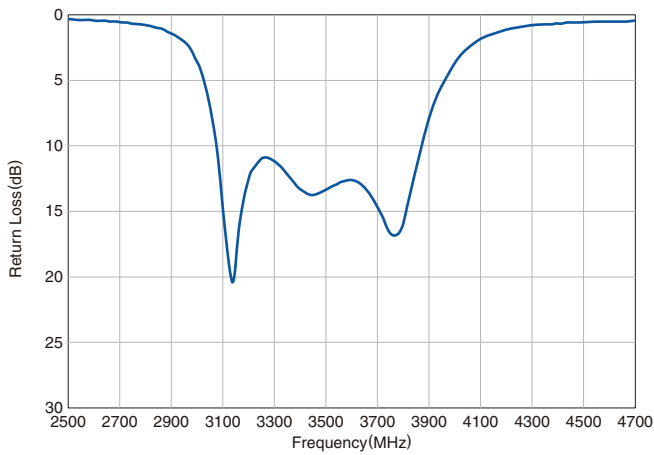
SDS21 INSERTION LOSS



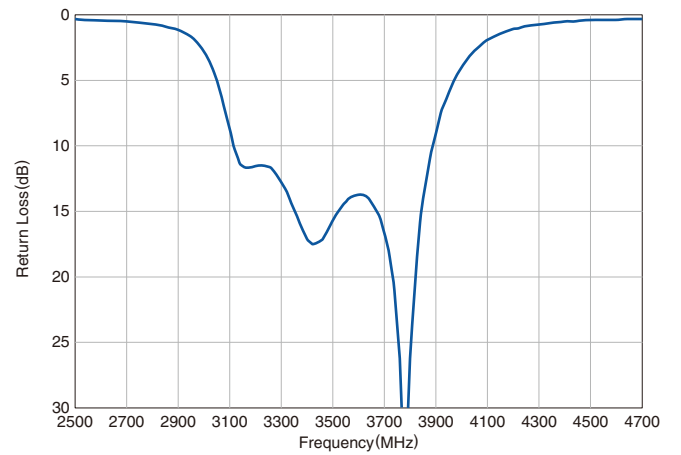
SDS21 ATTENUATION



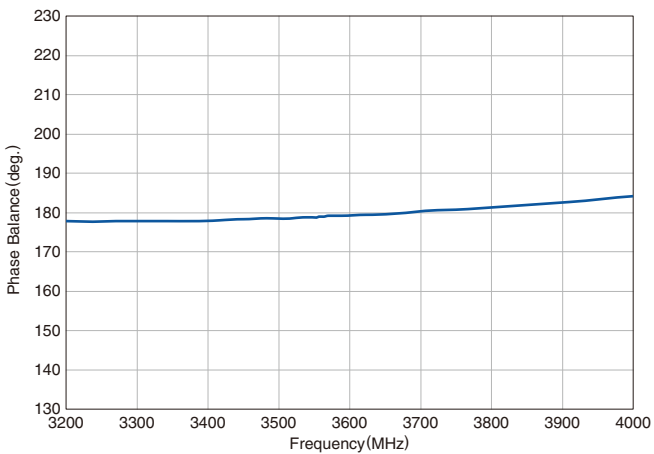
SSS11 RETURN LOSS at UNBALANCE PORT



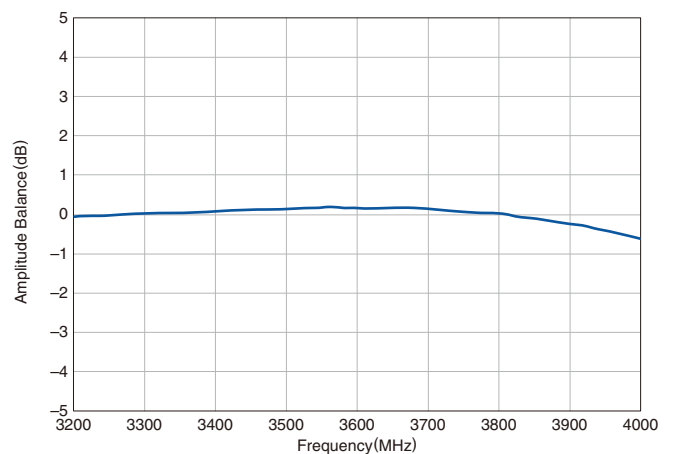
SDD22 RETURN LOSS at BALANCE PORT



PHASE BALANCE

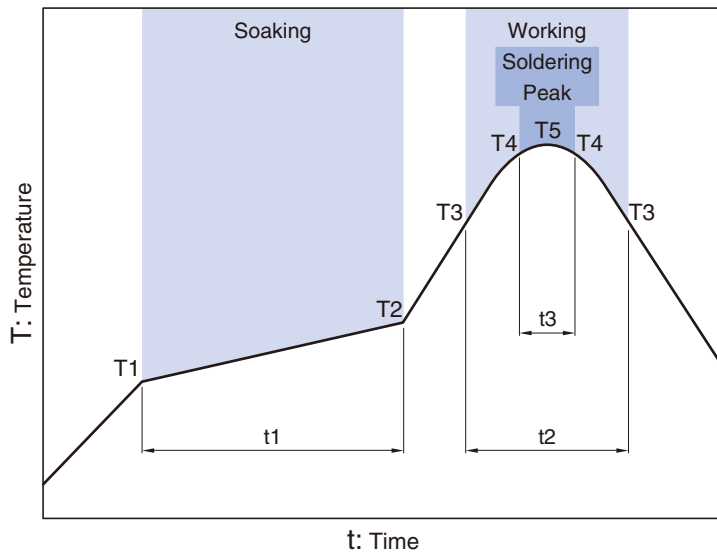


AMPLITUDE BALANCE



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**RECOMMENDED REFLOW PROFILE**


Soaking			Working		Soldering Peak		
Temp.	T2	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                                  | (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.