



## Multilayer Balun

For 350-470MHz

# HHM1589E1

2.0×1.25mm [EIA 0805]\*

\* Dimensions Code JIS[EIA]

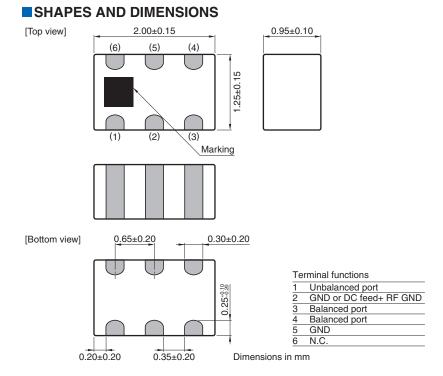


**Conformity to RoHS Directive** 

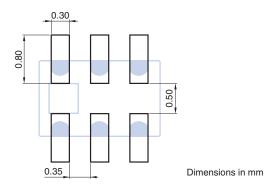
### **Multilayer Balun**

For 350-470MHz

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#### ■ RECOMMENDED LAND PATTERN



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.



### HHM1589E1

#### **ELECTRICAL CHARACTERISTICS**

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Unbalanced Port Characteristic Impedance ( $\Omega$ ) 50 (Nominal)				
Balanced Port Characteristic Impedance (Ω)	d Port Characteristic Impedance ( $\Omega$ ) 200 (Nominal)			
Return Loss at Unbalanced Port (dB)	350 to 470	9.54	_	_
Phase Balance (deg.)	350 to 470	170	_	190
Amplitude Balance (dB)	350 to 470	-1.0	_	1.0
Insertion Loss (dB)	350 to 470	_	_	1.5
Power Handling (W)	350 to 470	_	_	3

#### **TEMPERATURE RANGE**

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

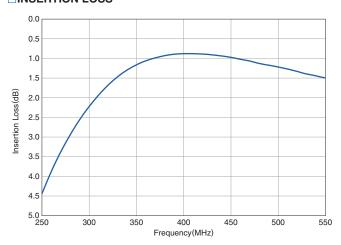
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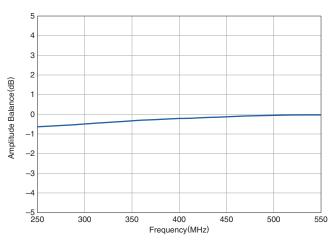
### HHM1589E1

#### FREQUENCY CHARACTERISTICS

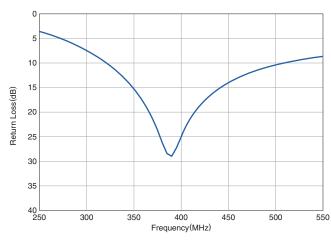
#### □INSERTION LOSS



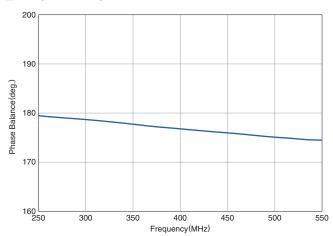
#### **\_AMPLITUDE BALANCE**



#### □RETURN LOSS



#### **□PHASE BALANCE**

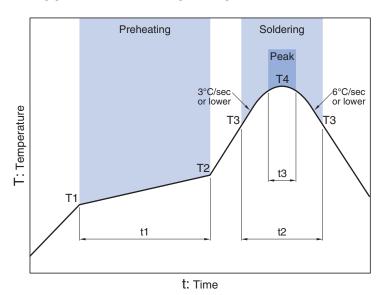


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#### ■ RECOMMENDED REFLOW PROFILE



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.

<sup>\*</sup> t3 : Time within  $5^{\circ}$ 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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