

August 2018

## Multilayer Balun

For 4900–5950MHz

# HHM1906A1

1.0x0.5mm [EIA 0402]\* \* Dimensions Code JIS[EIA]



## The products in this catalog will be or have been stopped production

Discontinue Issue Date	Jul. 6, 2018
Last Purchase Order Date	Dec. 17, 2018
Last Shipment Date	Mar. 29, 2019

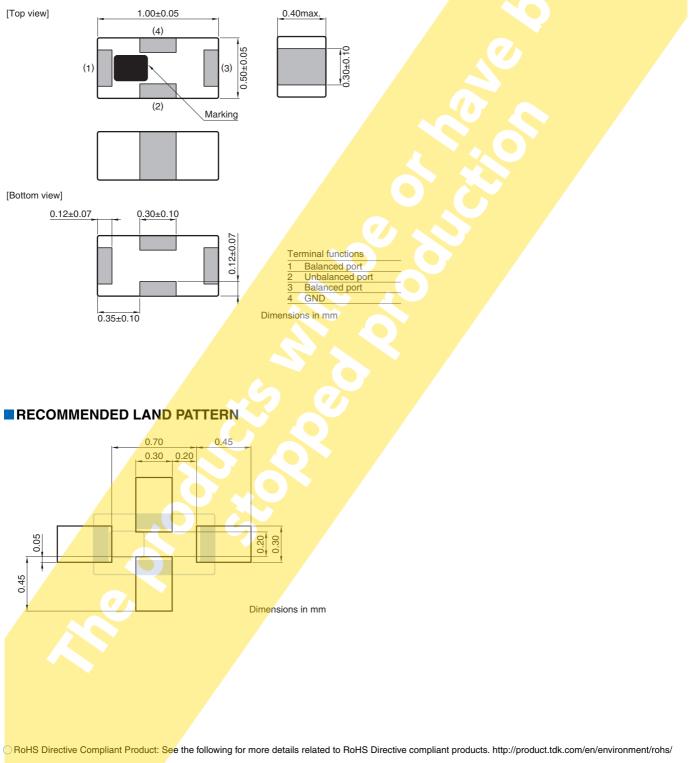
Please refer to our Web site about replacement information.

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#### SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.

• Before using these products, be sure to request the delivery specifications.

**Conformity to RoHS Directive** 

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#### **ELECTRICAL CHARACTERISTICS**

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Unbalanced Port Characteristic Impedance ( $\Omega$ )			50 (Nominal	
Balanced Port Characteristic Impedance ( $\Omega$ )			75 (Nominal	
Return Loss at Unbalanced Port (dB)	4900 to 5950	10	- (	/ —
Phase Balance (deg.)	4900 to 5950	165	—	195
Amplitude Balance (dB)	4900 to 5950	-2.5	$\leftarrow$	2.5
Insertion Loss (dB)	4900 to 5950	—	_	0.8

#### **TEMPERATURE RANGE**

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

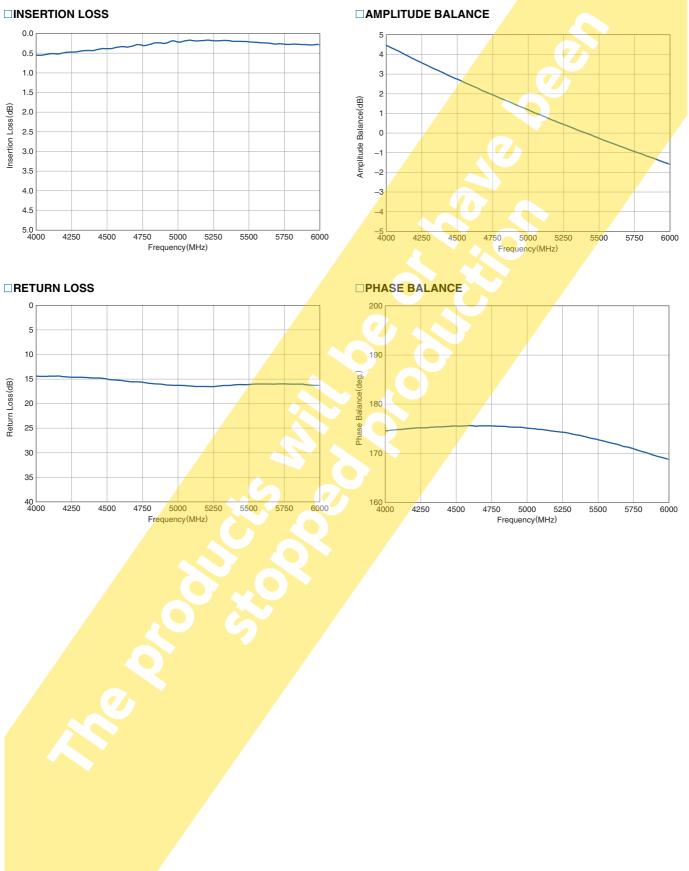
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#### **RF** Components

### **公TDK**

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#### FREQUENCY CHARACTERISTICS



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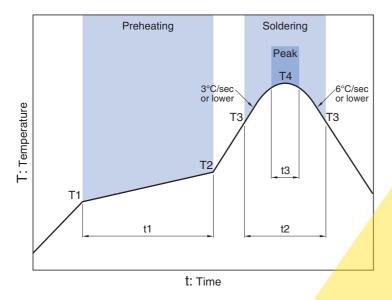
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#### **RF** Components

## **⊗TDK**

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#### RECOMMENDED REFLOW PROFILE



Preheating			Soldering Critical zor	ne (T3 to T4)	Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	ТЗ	t2	<b>T</b> 4	t3*
150°C	200°C	60 to 120sec	217°C	60 to 120se	c 240 to 260°C	30sec max.

 $^{\ast}$  t3 : Time within 5°C of actual peak temperature

The maximum number of reflow is 3.

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#### ⊗TDK

## 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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