



Multilayer Balun

For 1710-1990MHz

HHM1749S1

- 1.6x0.8mm [EIA 0603]*
- * Dimensions Code JIS[EIA]

Caution

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

Discontinue Issue Date	Jun. 3, 2022	
Last Purchase Order Date	Mar. 31, 2023	
Last Shipment Date	Mar. 31, 2024	

Please refer to our Web site about replacement information.



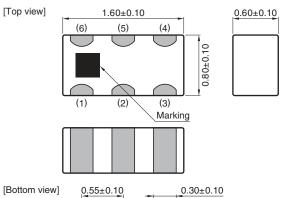
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Conformity to RoHS Directive

SHAPES AND DIMENSIONS

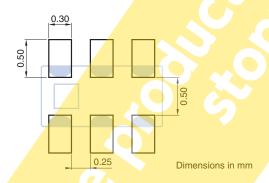


0.25±0.10 0.10±0.10

Terminal functions

- Unbalanced port GND or DC feed+ RF GND
- Balanced port
- Balanced port GND
- Dimensions in mm

■ RECOMMENDED LAND PATTERN



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)			100 (Nominal)	
Return Loss at Unbalanced Port (dB)	1710 to 1990	10	- 7/5	_
Phase Balance (deg.)	1710 to 1990	170	-	190
Amplitude Balance (dB)	1710 to 1990	-1.5	+	1.5
Insertion Loss (dB)	1710 to 1990		-	1.1

■TEMPERATURE RANGE

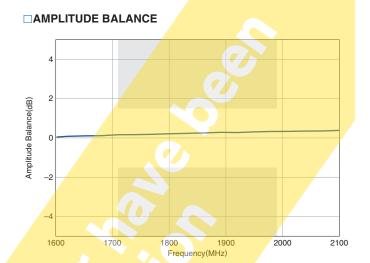
Operating temperature	Storage temperature		
(°C)	(°C)		
-40 to +85	-40 to +85		

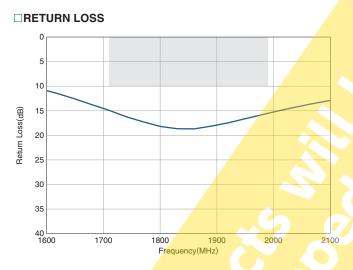
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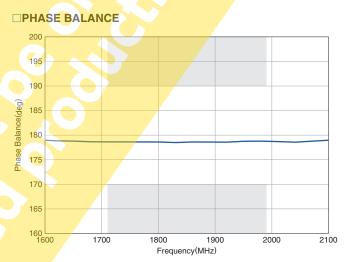
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FREQUENCY CHARACTERISTICS

1.5 2.0 2.5 3.0 1600 1700 1800 1900 2000 2100 Frequency(MHz)



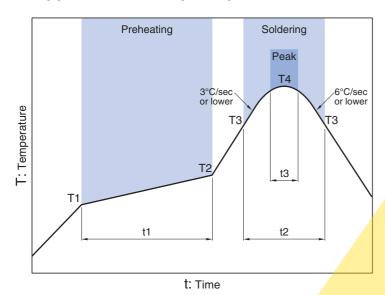




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■ RECOMMENDED REFLOW PROFILE



Preheating			Soldering			
		Critical zone (T3 to T4)		Peak		
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	t3*
150°C	200°C	60 to 120sec	217°C	60 to 120se	ec 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, 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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