



Multilayer Balun

For 1930-1990MHz

HHM1749H1

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



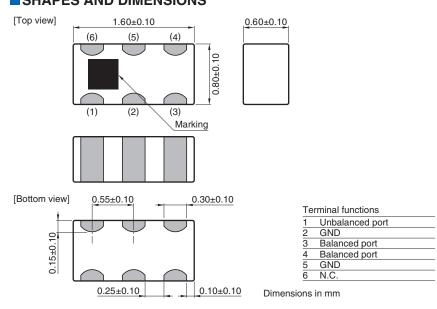
Conformity to RoHS Directive

Multilayer Balun

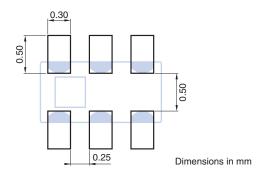
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SHAPES AND DIMENSIONS



■ 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/

[•] 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 (Nomina	al)
Balanced Port Characteristic Impedance (Ω)			100 (Nomina	al)
Return Loss at Unbalanced Port (dB)	1930 to 1990	10	_	_
Phase Balance (deg.)	1930 to 1990	170	_	190
Amplitude Balance (dB)	1930 to 1990	-2.0	_	2.0
Insertion Loss (dB)	1930 to 1990	_	_	0.9

■TEMPERATURE RANGE

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

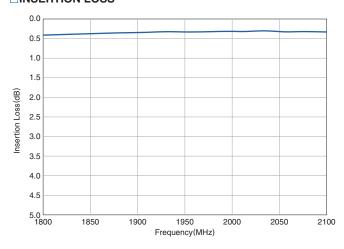
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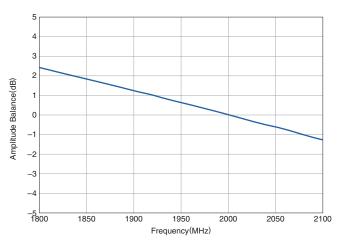
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FREQUENCY CHARACTERISTICS

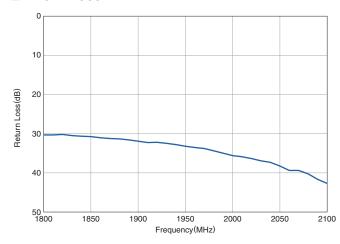
□INSERTION LOSS



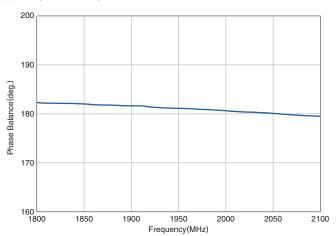
_AMPLITUDE BALANCE



RETURN LOSS



□PHASE BALANCE



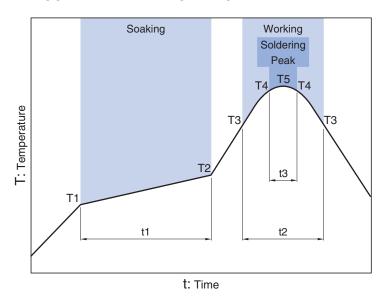
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■ RECOMMENDED REFLOW PROFILE



Soaking			Working		Soldering Peak	Soldering Peak		
Temp.		Time	Temp.	Time	Temp.	Time	Temp.	
T1	T2	t1	Т3	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
- (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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