TDK

June 2018

Multilayer Balun

For 680-1100MHz

HHM1522E3

2.0×1.25mm [EIA 0805]*

*** Dimensions Code JIS[EIA]**

⚠ Caution

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

Discontinue Issue Date	Jun. 8, 2026
Last Purchase Order Date	Dec. 31, 2027
Last Shipment Date	Dec. 31, 2028

Please refer to our Web site about replacement information.

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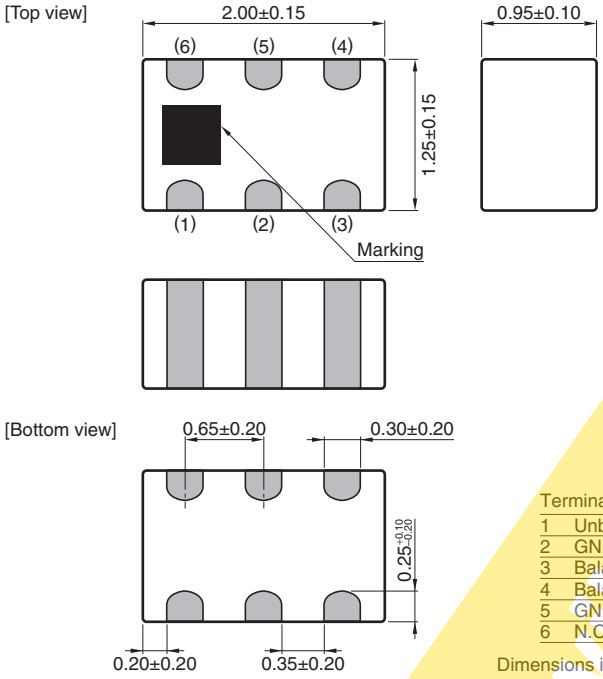
Multilayer Balun

For 680-1100MHz

Conformity to RoHS Directive

HHM1522E3

SHAPES AND DIMENSIONS

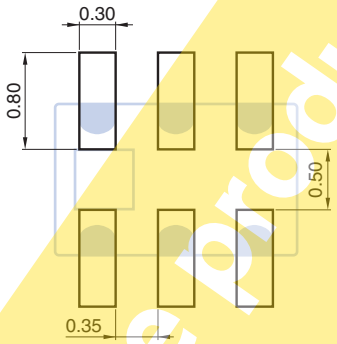


Terminal functions

1	Unbalanced Port
2	GND or DC feed+ RF GND
3	Balanced Port
4	Balanced Port
5	GND
6	N.C.

Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

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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.	Typ.	Max.
Unbalanced Port Characteristic Impedance (Ω)			50 (Nominal)	
Balanced Port Characteristic Impedance (Ω)			50 (Nominal)	
Return Loss at Unbalanced Port (dB)	680 to 1100	9.5	11.1	—
Phase Balance (deg.)	680 to 1100	175	180.2	185
Amplitude Balance (dB)	680 to 1100	–0.9	0.61	0.9
Insertion Loss (dB)	680 to 1100	—	1.33	1.5
Power Handling (W)	680 to 1100	—	—	0.5

TEMPERATURE RANGE

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

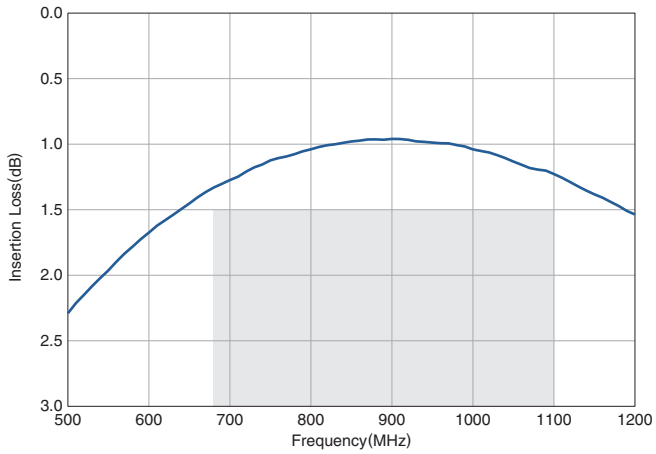
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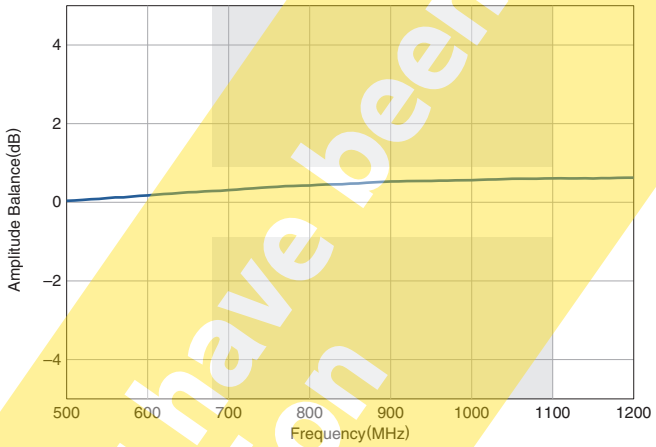
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FREQUENCY CHARACTERISTICS

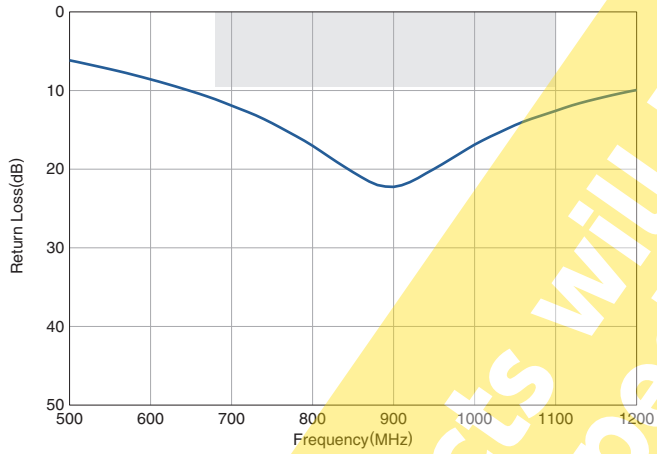
INSERTION LOSS



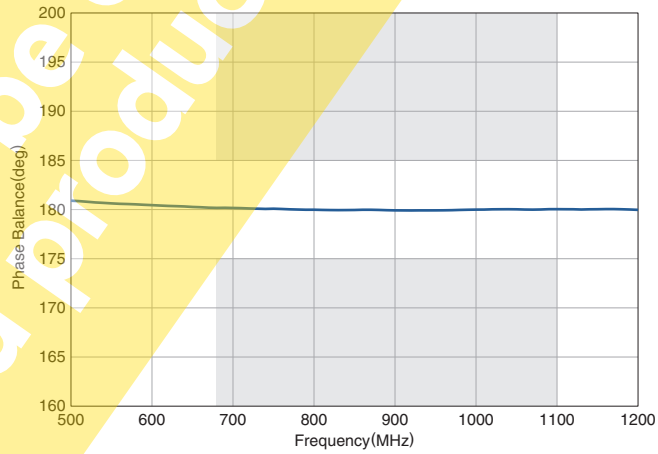
AMPLITUDE BALANCE



RETURN LOSS



PHASE BALANCE



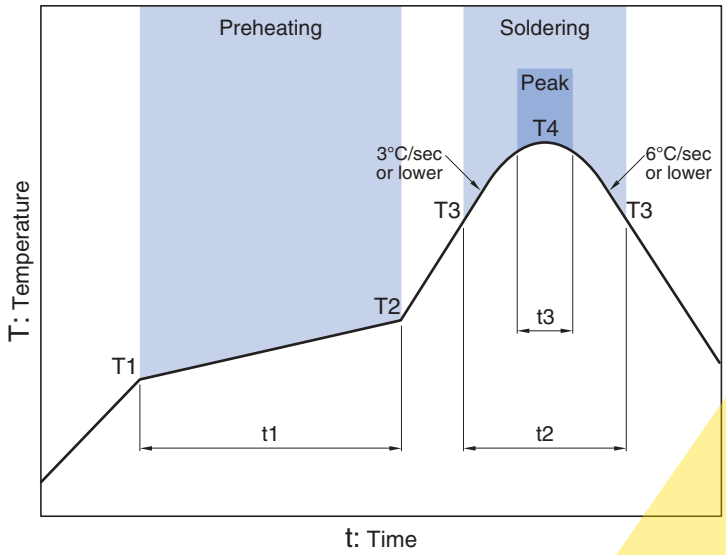
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RECOMMENDED REFLOW PROFILE



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.

* 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 (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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