



Multilayer Balun

For 3100-4900MHz

HHM1596A1

2.0x1.25mm [EIA 0805]*

* Dimensions Code JIS[EIA]

Multilayer Balun

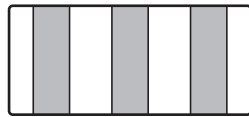
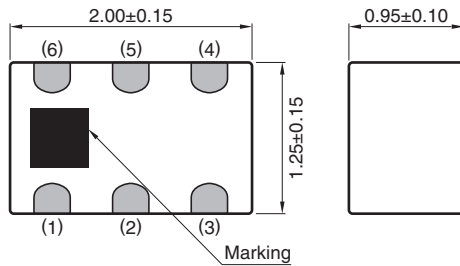
Conformity to RoHS Directive

For 3100-4900MHz

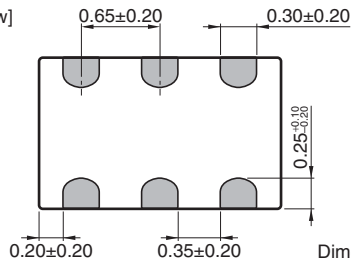
HHM1596A1

SHAPES AND DIMENSIONS

[Top view]



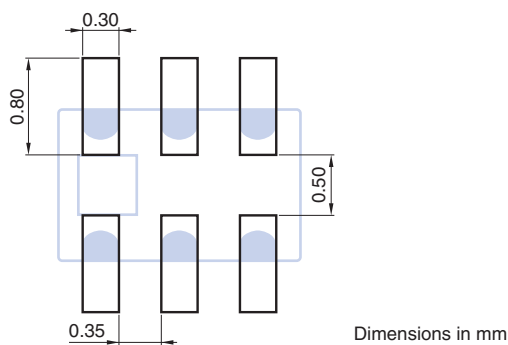
[Bottom view]



Terminal functions

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

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.

HHM1596A1

ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Unbalanced Port Characteristic Impedance (Ω)			50 (Nominal)	
Balanced Port Characteristic Impedance (Ω)			100 (Nominal)	
Return Loss at Unbalanced Port (dB)	3100 to 4900	10	—	—
Phase Balance (deg.)	3100 to 4900	165	—	195
Amplitude Balance (dB)	3100 to 4900	-2.0	—	2.0
Insertion Loss (dB)	3100 to 4900	—	—	1.0

TEMPERATURE RANGE

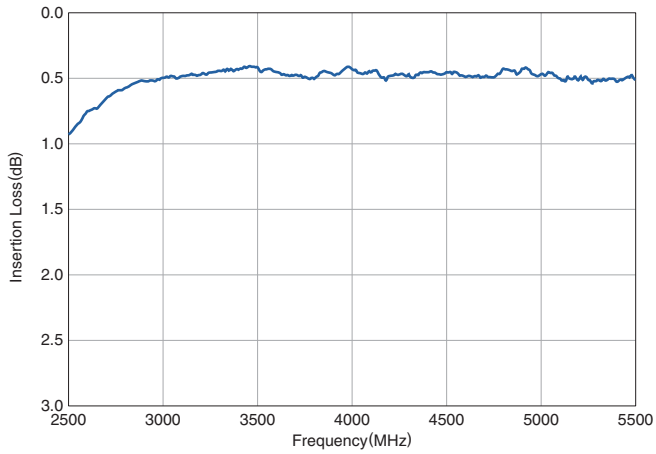
Operating temperature (°C)	Storage temperature (°C)
-40 to +85	-40 to +85

- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

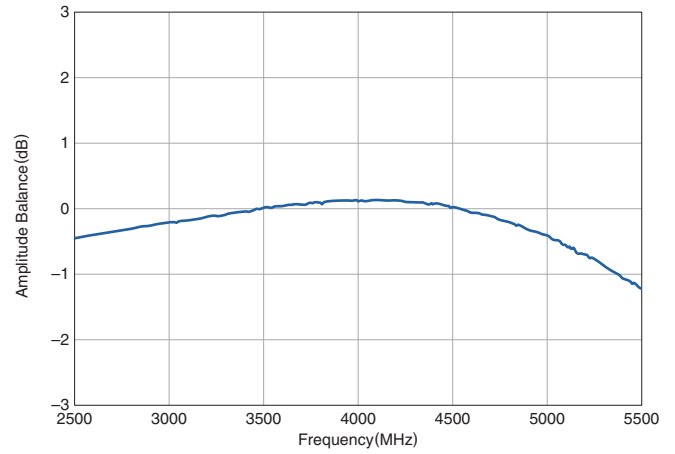
HHM1596A1

FREQUENCY CHARACTERISTICS

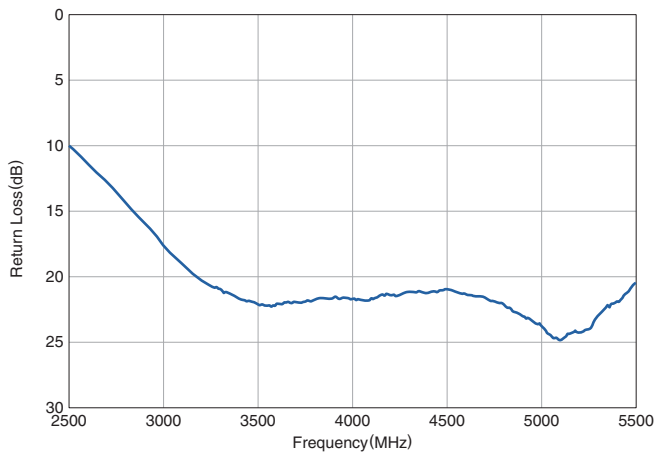
INSERTION LOSS



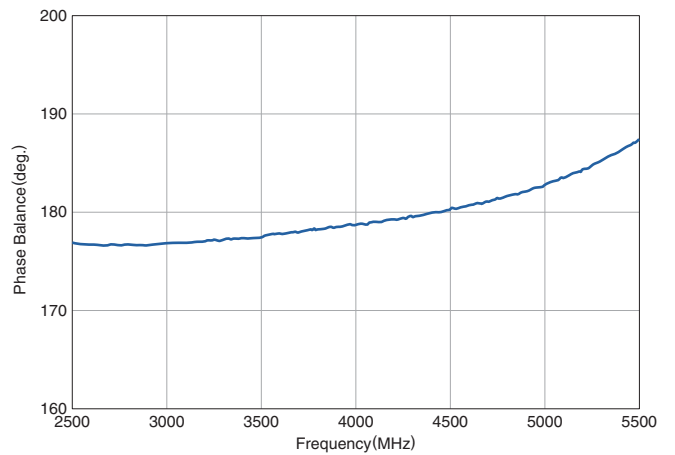
AMPLITUDE BALANCE



RETURN LOSS

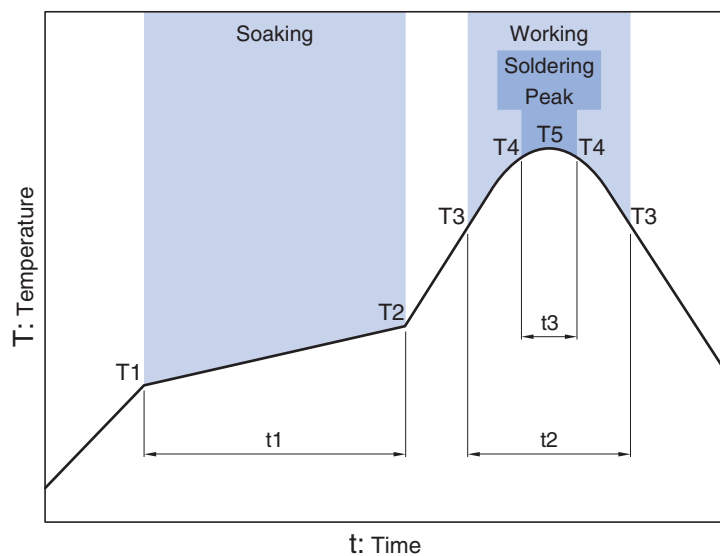


PHASE BALANCE



- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

HHM1596A1

RECOMMENDED REFLOW PROFILE


Soaking			Working		Soldering Peak		
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	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.

- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

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 | (8) Public information-processing equipment |
| (2) Transportation equipment (cars, electric trains, ships, etc.) | (9) Military equipment |
| (3) Medical equipment | (10) Electric heating apparatus, burning equipment |
| (4) Power-generation control equipment | (11) Disaster prevention/crime prevention equipment |
| (5) Atomic energy-related equipment | (12) Safety equipment |
| (6) Seabed equipment | (13) Other applications that are not considered general-purpose applications |
| (7) Transportation control equipment | |

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.