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Multilayer Balun
For LTE

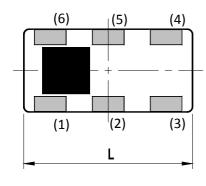
HHM Series 1608 TYPE

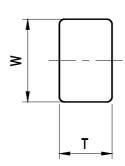
P/N: **HHM17166A1**

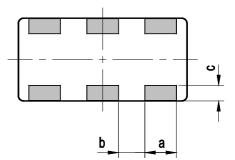


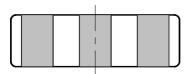
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SHAPES AND DIMENSIONS









Dimensions (mm)

4						
	٦	W	Т	а	b	С
	1.60	0.80	0.60	0.30	0.25	0.15
	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10

Terminal functions

(1)	Unbalanced Port DC feed + RF GND or GND Balanced Port		
(2)			
(3)			
(4)	Balanced Port		
(5)	GND		



Note:

These samples are marked with trial sample identification.

In mass production, this sample marking will be changed to show in the TDK full specification.

TEMPERATURE RANGE

Operating temperature	Storage temperature
–40 to +85 ℃	–40 to +85 ℃



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■ ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Fraguanay (MUz)		TDK Spec			
Farameter	Frequency (MHz)			Min.	Тур.	Max.
Unbalanced Port					50	
Characteristic Impedance				50		
Balanced Port				20.4:44.4		
Characteristic Impedance				20.1-j11.4		
Return Loss	1000	to	2300	8	10.3	-
at Unbalanced Port (dB)	1900	ιο				
Phase Balance (deg.)	1900	to	2300	170	178	190
Amplitude Balance (dB)	1900	to	2300	-1.00	0.22	1.00
Insertion Loss (dB)	1900	to	2300	-	1.51	2.20
Power Handling (W)				-	•	1

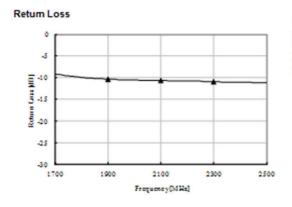
Ta = +25+/-5℃

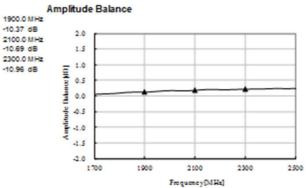


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FREQUENCY CHARACTERISTICS

HHM17166A1(UNBALANCE 50 ohm/BALANCE 20.1-j11.4 ohm)





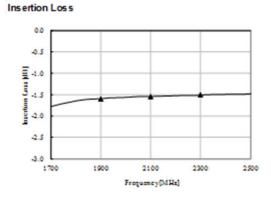


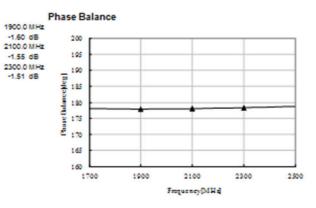
0.12 dB

2100.0 MHz

2300.0 MHz

0.22 dB

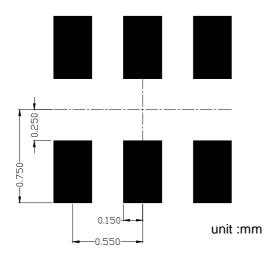






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■ RECOMMENDED LAND PATTERN



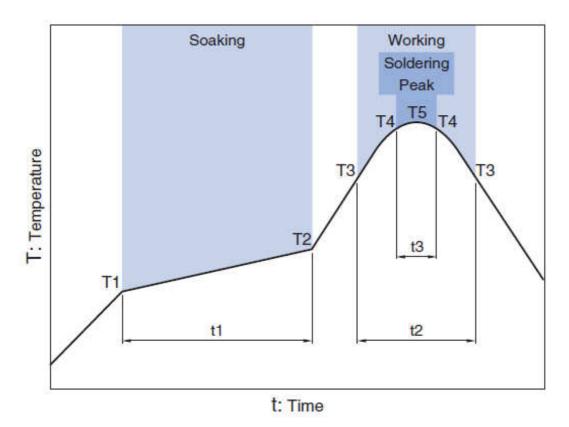
■ ENVIROMENT INFORMATION

RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE

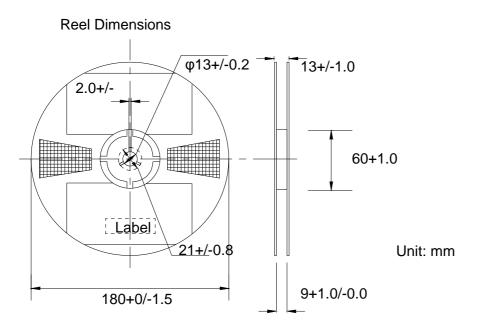
Pb free solder



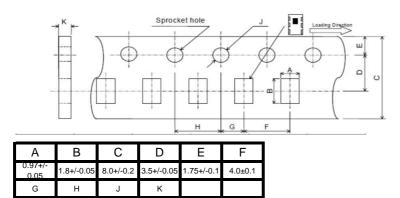
	Soaking		Working		Soldering		Peak
Те	mp.	Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150℃	180℃	60 to 120sec	230℃	more than 30sec	247 to 253℃	within 10sec	260℃ Max.

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PACKAGING STYLE



Carrier Tape



STANDARD PACKAGE QUANTITY	7	
(pieces/reel)		
4,000		



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 specification sheet 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 specification sheet.

- 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.