

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Multilayer Balun
For LTE

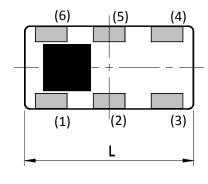
HHM Series 1608 TYPE

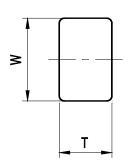
P/N: HHM17168B1

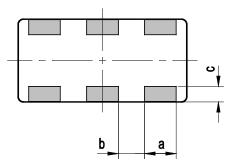


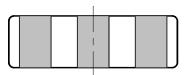
HHM17168B1

SHAPES AND DIMENSIONS







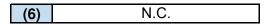


Dimensions (mm)

,						
L	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		
(2)	DC feed + RF GND or GND		
(3)	Balanced Port		
(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 °C	–40 to +85 °C



HHM17168B1

■ ELECTRICAL CHARACTERISTICS

(Measurement)

Parameter	Eroguanay (MUz)		TDK Spec			
Parameter	Frequency (MHz)			Min.	Тур.	Max.
Unbalanced Port					50	
Characteristic Impedance					50	
Balanced Port				2	0 E iEE	2
Characteristic Impedance				30.5-j55.2		
Return Loss	3400	to	3800	10	18.6	
at Unbalanced Port (dB)	3400	ιΟ	3600	10	10.0	_
Phase Balance (deg.)	3400	to	3800		182	
Amplitude Balance (dB)	3400	to	3800		0.55	
Insertion Loss (dB)	3400	to	3800	-	0.80	
Power Handling (W)				-		1

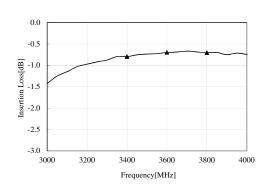
Ta = +25+/-5°C



HHM17168B1

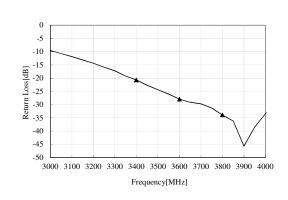
■ FREQUENCY CHARACTERISTICS

Insertion Loss



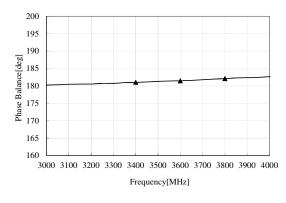
3400 MHz -0.80 dB 3600 MHz -0.70 dB 3800 MHz -0.71 dB

Return Loss



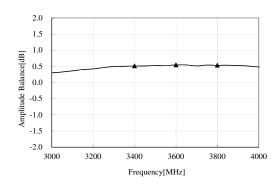
3400 MHz -20.7 dB 3600 MHz -27.9 dB 3800 MHz -33.9 dB

Phase Balance



3400 MHz 181 deg 3600 MHz 181 deg 3800 MHz 182 deg

Amplitude Balanc

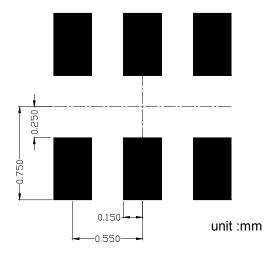


3400 MHz 0.51 dB 3600 MHz 0.55 dB 3800 MHz 0.53 dB



HHM17168B1

■ RECOMMENDED LAND PATTERN



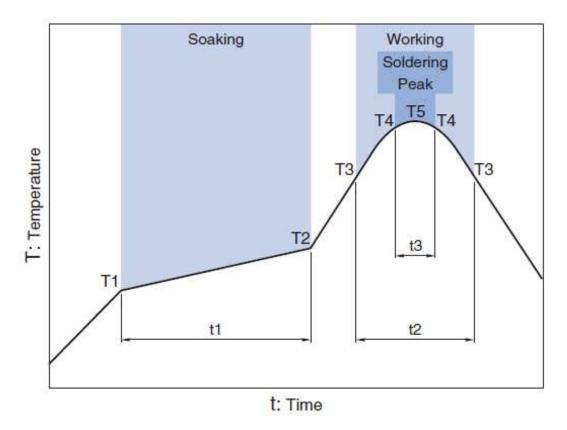
■ ENVIROMENT INFORMATION

RoHS Statement RoHS Compliance

HHM17168B1

■ RECOMMENDED REFLOW PROFILE

Pb free solder



	Soaking Working		Soldering		Peak		
Tei	mp.	Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	Т3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

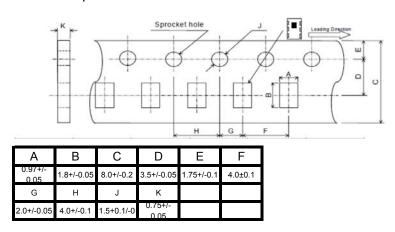


HHM17168B1

PACKAGING STYLE

Reel Dimensions 9+1.0/-0.0 Page 13+/-0.2 13+/-1.0 13+/-1.0 Unit: mm

Carrier Tape



STANDARD PACKA	GE QUANTITY
(pieces/re	eel)
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.