

Multilayer Balun
For LTE

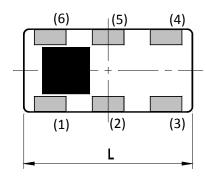
HHM Series 1608 TYPE

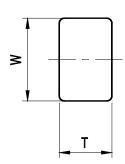
P/N: HHM17168B1

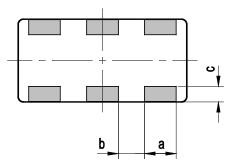


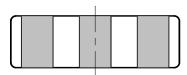
HHM17168B1

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)

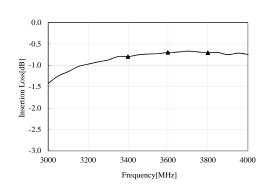
Parameter	Parameter Frequency (MHz)		TDK Spec			
Parameter			Min.	Тур.	Max.	
Unbalanced Port					50	
Characteristic Impedance					50	
Balanced Port				2	0.5-j55	2
Characteristic Impedance				5	0.5-j55	.∠
Return Loss	3400	to	3800	10	18.6	
at Unbalanced Port (dB)	3400	ιο	3000	10	10.0	•
Phase Balance (deg.)	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

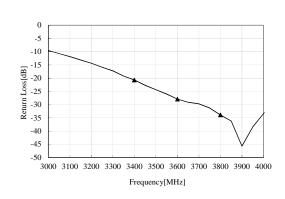
■ FREQUENCY CHARACTERISTICS

Insertion Loss



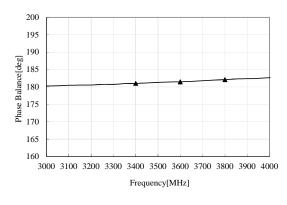
3400 MHz -0.80 dB 3600 MHz -0.70 dB 3800 MHz -0.71 dB

Return Loss



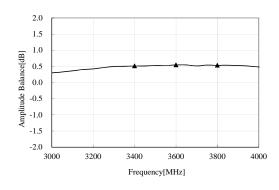
3400 MHz -20.7 dB 3600 MHz -27.9 dB 3800 MHz -33.9 dB

Phase Balance



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

Amplitude Balanc

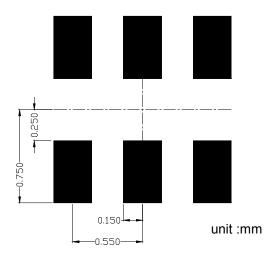


3400 MHz 0.51 dB 3600 MHz 0.55 dB 3800 MHz 0.53 dB



HHM17168B1

RECOMMENDED LAND PATTERN



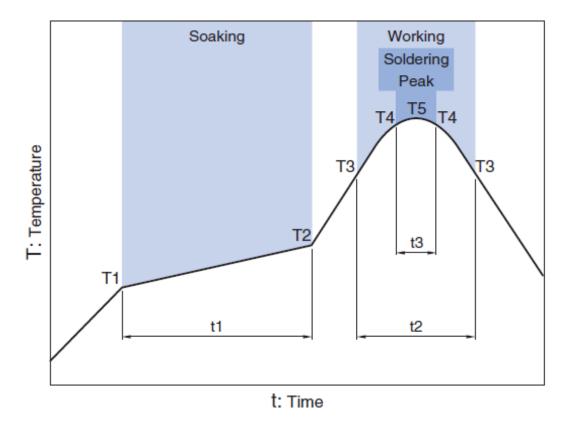
■ ENVIROMENT INFORMATION

RoHS Statement RoHS Compliance

HHM17168B1

RECOMMENDED REFLOW PROFILE

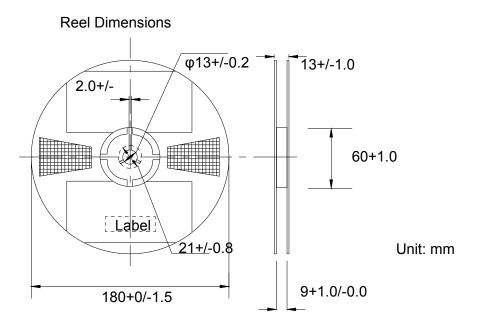
Pb free solder



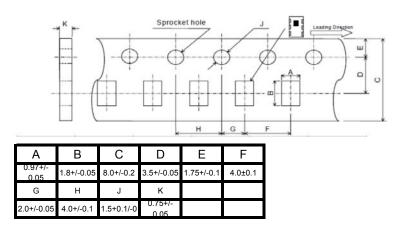
	Soaking		V	Working		Soldering	
Tei	mp.	Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

HHM17168B1

PACKAGING STYLE



Carrier Tape



STANDARD PACKAGE QUANTITY
(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.

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Click to view similar products for Signal Conditioning category:

Click to view products by TDK manufacturer:

Other Similar products are found below:

MAPDCC0001 MAPDCC0004 PD0409J5050S2HF 880157 HHS-109-PIN DC1417J5005AHF AFS14A30-2185.00-T3 AFS14A35-1591.50-T3 DS-323-PIN B39321R801H210 1A0220-3 JP510S LFB212G45SG8C341 LFB322G45SN1A504 LFL182G45TC3B746 SF2159E 30057 FM-104-PIN CER0813B MAPDCC0005 3A325 40287 41180 ATB3225-75032NCT BD0810N50100AHF BD2425J50200AHF C5060J5003AHF JHS-115-PIN JP503AS DC0710J5005AHF DC2327J5005AHF DC3338J5005AHF 43020 LFB2H2G60BB1C106 LFL15869MTC1B787 X3C19F1-20S XC3500P-20S 10013-20 SF2194E CDBLB455KCAX39-B0 TGL2208-SM, EVAL RF1353C PD0922J5050D2HF 1E1305-3 1G1304-30 B0922J7575AHF 2020-6622-20 TP-102-PIN TP-103-PIN BD1222J50200AHF