

公TDK

May. 2015 Ver.1.1 TDK Corporation

Multilayer Balun For LTE

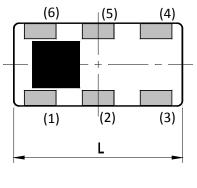
HHM Series

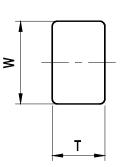
1608 TYPE

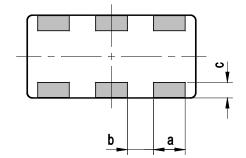


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SHAPES AND DIMENSIONS







Dimensions (mm)

L	W	Т	Г a 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			

(6) N.C.

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

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ELECTRICAL CHARACTERISTICS

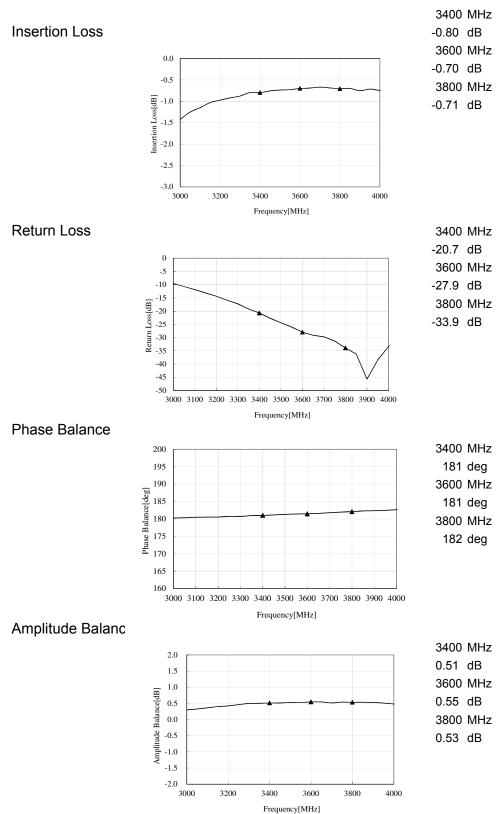
(Measurement)

Parameter	Eroquo	Frequency (MHz)		TDK Spec		
Parameter	Freque	ncy		Min.	Тур.	Max.
Unbalanced Port				50		
Characteristic Impedance				50		
Balanced Port				20 5 155 2		2
Characteristic Impedance				30.5-j55.2		
Return Loss	3400	to	3800	10	18.6	
at Unbalanced Port (dB)	3400	to	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

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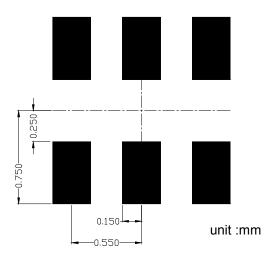
FREQUENCY CHARACTERISTICS



All specifications are subject to change without notice. TDK Technology - Proprietary and Confidential Information of TDK Group Companies

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RECOMMENDED LAND PATTERN



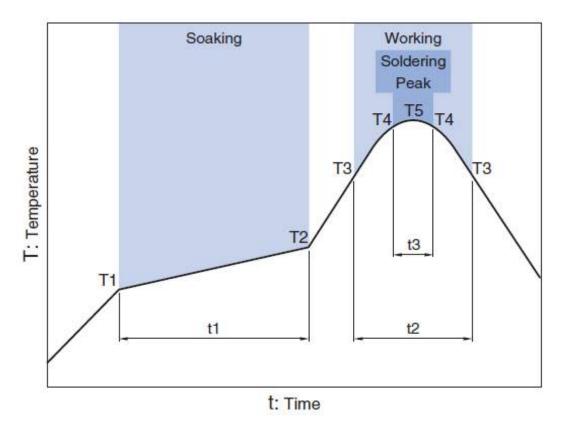


RoHS Statement RoHS Compliance

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RECOMMENDED REFLOW PROFILE

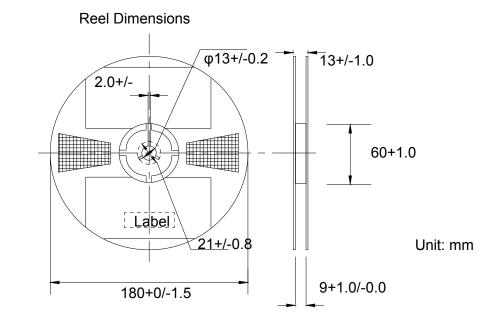
Pb free solder



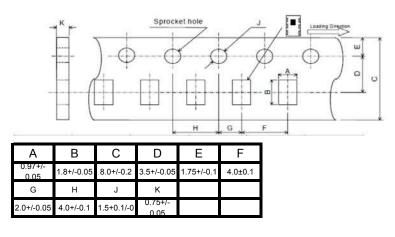
Soaking		Working		Soldering		Peak	
Te	mp.	Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	Т3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

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PACKAGING STYLE



Carrier Tape



STANDARD PACKAGE QUANTI	٢Y
(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.

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.