

Nov. 2014 Ver.0.1 TDK Corporation

Thin-Film Balun

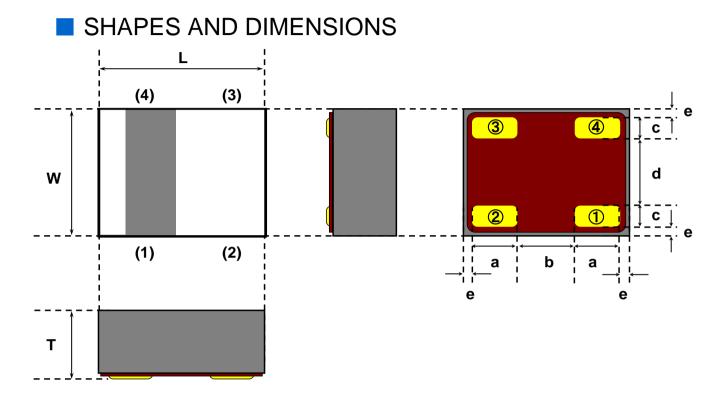
For Band1-Band3 Rx (1805-2170MHz)

TFS Series 0.65x0.5mm [EIA 0202] TYPE

P/N: TFSZ06051987-3315A4

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Dimensions (mm)

L	W	T	а	b	С	d	е	f
0.65	0.50	0.25	0.20	0.20	0.10	0.25	0.025	-
+/-0.04	+/-0.04	+/-0.05	+/-0.04	+/-0.04	+/-0.04	+/-0.04	+/-0.025	-

Terminal functions

(1)	GND
(2)	Unbalanced Port
(3)	Balanced Port
(4)	Balanced Port
(5)	

(6)	
(7)	
(8)	
(9)	
(10)	

TEMPERATURE RANGE

Operating temperature	Storage temperature				
–40 to +85 °C	–40 to +85 °C				

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ELECTRICAL CHARACTERISTICS

(Measurement)

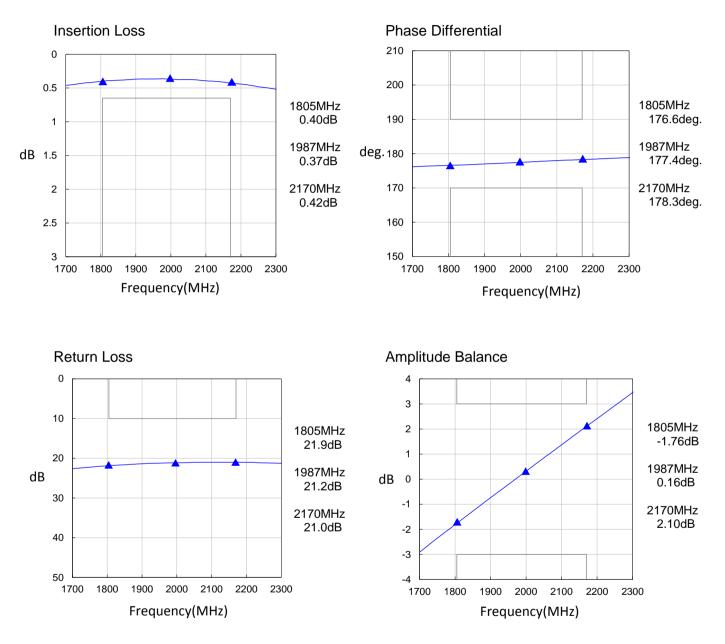
Parameter	Eroqui	Frequency (MHz)		Request			TDK Spec		
Faralleter	Freque			Min.	Тур.	Max.	Min.	Тур.	Max.
Unbalanced Port		-		50		50			
Characteristic Impedance				50			50		
Balanced Port		-		100			100		
Characteristic Impedance									
Return Loss	1805	to	2170	-	-	-	10	21.0	-
at Unbalanced Port (dB)	1005								
Phase Differential (deg.)	1805	to	2170	-	-	-	170	176.6	190
Amplitude Balance (dB)	1805	to	2170	-	-	-	-3.0	2.10	3.0
Insertion Loss (dB)	1805	to	2170	-	-	-	-	0.42	0.70
Power Handling (W)		-		-	-	-	-	-	-
	-			-			-		

Ta = +25+/-5°C

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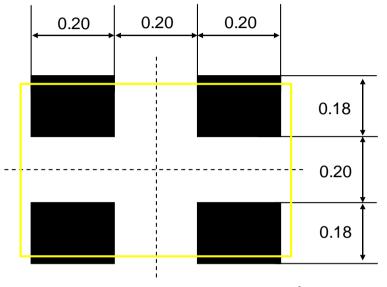
FREQUENCY CHARACTERISTICS



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RECOMMENDED LAND PATTERN



unit: mm

EVALUATION BOARD

ENVIRONMENT INFORMATION

RoHS Statement RoHS Compliance

Moisture Sensitivity Level (MSL): 1

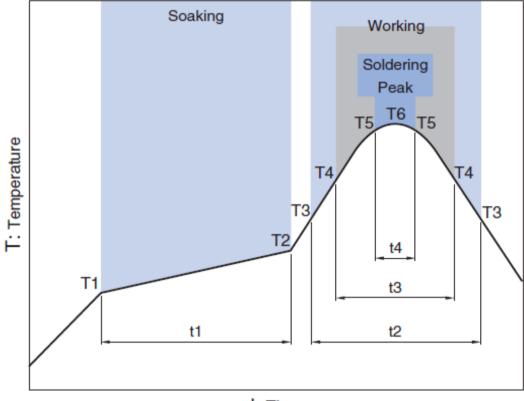
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RECOMMENDED REFLOW PROFILE

In this product, the recommended soldering condition is 'reflow'. The recommended temperature profile is shown in below. Lead Free Reflow Soldering (Sn-3Ag-0.5Cu) Reflow Soldering : Maximum 2 times



t: Time

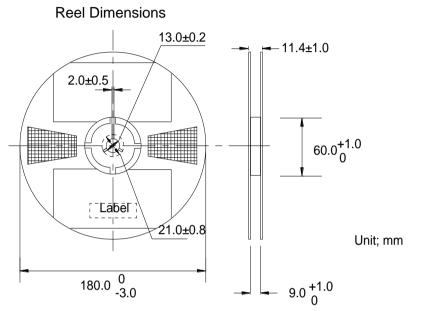
	Soa	king	Working				
Temp. Time Temp.		np.	Time				
T1	T2	t1	T3	T4	t2	t3	
150°C	180°C	60 to 120sec	217°C	230°C	60 to 150sec	more than 45sec	

Sold	Peak		
Temp.	Time	Temp.	
T5	t4	T6	
247 to 253°C	within 10sec	260°C Max.	

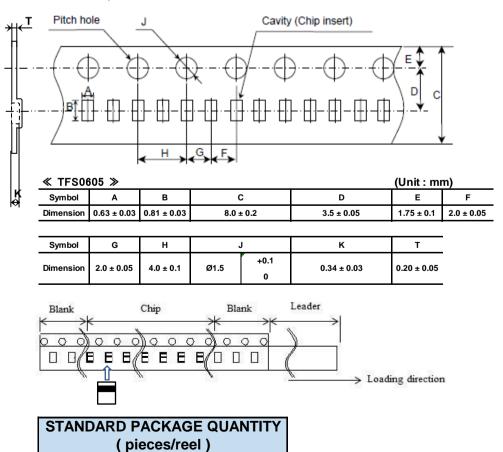
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PACKAGING STYLE



Carrier Tape



10,000

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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.

REVISION TABLE

TFSZ06051987-3315A4

No.	Version			Change item and changes
	Ver.0.1	2014/11/25	ENDO Makoto	Change item and changes First Version
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Note:

These samples are marked with trial sample identification. In mass production, this sample marking will be changed to show in the TDK full

3.2x2.5mm [EIA 1210] 3.2x1.6mm [EIA 1206] 2.5x2.0mm [EIA 1008] 2.0x1.5mm 2.0x1.25mm [EIA 0805] 1.6x0.8mm [EIA 0603] 1.4x1.1mm 1.0x0.5mm [EIA 0402] 0.65x0.5mm [EIA 0202] 0.6x0.3mm [EIA 0201]

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