

April 2015

Thin-Film Balun

For 2300-2690MHz

TFSZ06052460-3310A2

0.65x0.5mm [EIA 0202]*

* Dimensions Code JIS[EIA]



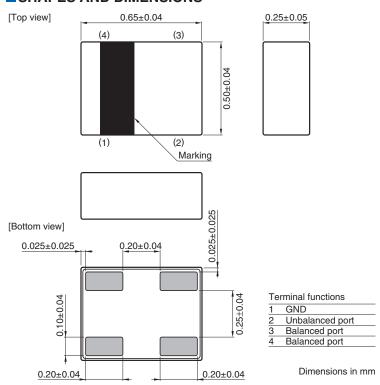
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For 2300-2690MHz

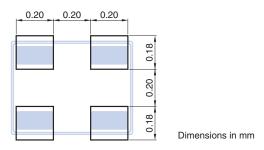
Conformity to RoHS Directive

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SHAPES AND DIMENSIONS



■ RECOMMENDED LAND PATTERN



Line width be designed to mach 50Ω characteristic impedance depending on PCB Material and thickness.

OROHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. http://product.tdk.com/en/environment/rohs/

[•] All specifications are subject to change without notice.

[•] Before using these products, be sure to request the delivery specifications.



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ELECTRICAL CHARACTERISTICS

ltem	Frequency Range (MHz)	Min.	Тур.	Max.	
Unbalanced Port Characteristic Impedance (Ω)		50 (Nominal)			
Balanced Port Characteristic Impedance (Ω)		100 (Nominal)			
Return Loss at Unbalanced Port (dB)	2300 to 2690	10	_	_	
Phase Balance (deg.)	2300 to 2690	170	_	190	
Amplitude Balance (dB)	2300 to 2690	-2.5	_	2.5	
Incortion Loop (dD)	2300 to 2690	_	_	0.55	
Insertion Loss (dB)	2300 to 2690	_	_	0.65 (-40 to +85°C)	

[•] Ta: +25°C

■TEMPERATURE RANGE

Operating temperature	Storage temperature		
(°C)	(°C)		
-40 to +85	-40 to +85		

MSL

Moisture Sensitivity Level					
(MSL)					
1					

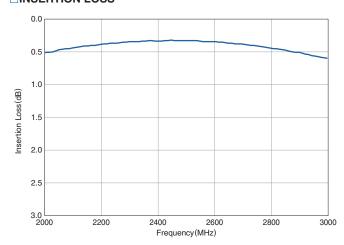
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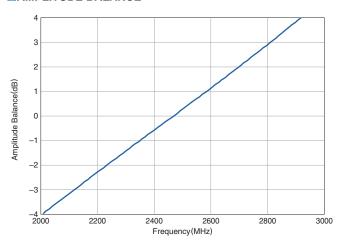
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FREQUENCY CHARACTERISTICS

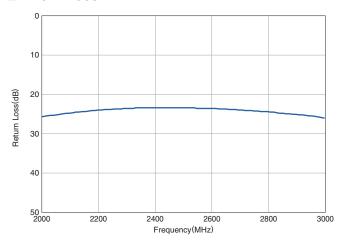
□INSERTION LOSS



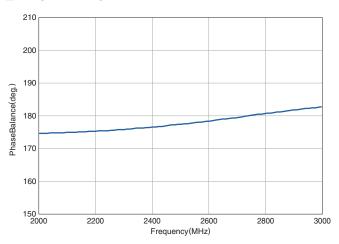
AMPLITUDE BALANCE



RETURN LOSS



□PHASE BALANCE



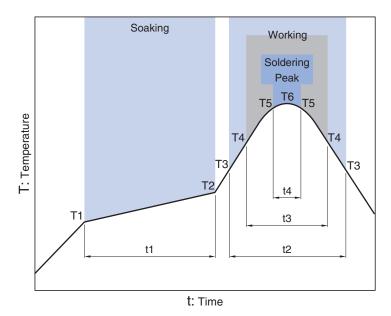
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■ RECOMMENDED REFLOW PROFILE



Soaking		Working	Working			Soldering		Peak	
Temp.		Time	Temp.	Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5	t4	T6
150°C	180°C	60 to 120s	217°C	60 to 150s	230°C	more than 45s	247 to 253°C	within 10s	260°C max.

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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.

⚠ REMINDERS

The products listed on this catalog 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 catalog.

- (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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