LF

Kunde / customer :

Artikelnummer / part number :

748421245



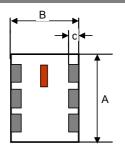
size

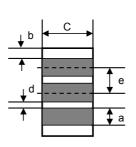


Bezeichnung : SMD-Balun WE-BAL description : Chip-Balun WE-BAL

DATUM / DATE : 2004-10-11

### A Mechanische Abmessungen / dimensions:





Α	2,0 ± 0,1	mm
В	1,25 ± 0,1	mm
С	0,85 ± 0,1	mm
а	0,3 ± 0,1	mm
b	$0,2 \pm 0,1$	mm
С	0,3 +0,1/-0,2	mm
d	0,35 ± 0,1	mm
е	$0,65 \pm 0,05$	mm

0805

#### B Elektrische Eigenschaften / electrical properties:

### C Abbildung/ apperance:

2 Liokardono Ligoridonarion / diodarda proportido.						
Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.	
Frequenzbereich/ frequency range		f	2400 2500	MHz		
Einfügedämpfung/ insertion loss	2400 2500 MHz		1,0	dB	max.	
Einfügedämpfung/ insertion loss	2400 2500 MHz		0,54	dB	typ.	
VSWR/ VSWR	2400 2500 MHz		2,0		max.	
VSWR/ VSWR	2400 2500 MHz		1,32		typ.	
Phasendifferenz/ phase imbalance			180	0	± 10°	
Amplitudendifferenz/ amplitude imbalance			2,0	dB	max.	
Eingangsimpedanz/ unbalanced impedance		Z	50	Ω	typ.	
Ausgangsimpedanz/ balanced impedance		Z	100	Ω	typ.	



#### D Prüfgeräte / test equipment:

### E Testbedingungen / test conditions:

Network Analyzer Agilent E5071B

Luftfeuchtigkeit / humidity: 50 ~ 70%

Umgebungstemperatur / temperature:  $20^{\circ}\text{C} \sim 25^{\circ}\text{C}$ 

#### F Werkstoffe & Zulassungen / material & approvals

# **G** Eigenschaften / general specifications:

Basismaterial / base material: Kontaktmaterial / contact plating: Keramik / ceramic

AG + Ni + Sn

Betriebstemp. / operating temperature:  $-40^{\circ}\text{C} - +85^{\circ}\text{C}$ Lagerbedingungen / storage conditions:  $15^{\circ}\text{C} \sim 35^{\circ}\text{C}$ 

45 ~ 75% RH

Leistung/ power capacity: 3 W max.

Freigabe erteilt / general release:	Kunde / customer			
Treigabe ertelit / general release.				
Datum / date	Unterschrift / signature			
	Würth Elektronik			
		AWe	Version 1	04-10-11
Geprüft / checked	Kontrolliert / approved	Name	Änderung / modification	Datum/date

# Würth Elektronik eiSos GmbH & Co.KG

LF

Kunde / customer :

Artikelnummer / part number : 748421245

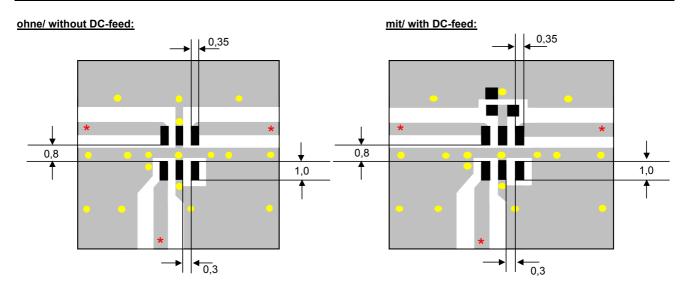
Bezeichnung : SMD-Balun WE-BAL description : Chip-Balun WE-BAL





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#### H Lötpadempfehlung / solder pads:



<sup>\*</sup> Line width should be designed to provide proper impedance matching characteristics, depending on PCB material and thickness.

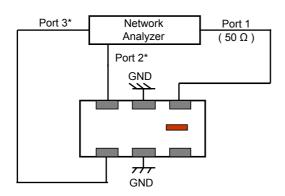
Solder Resist

Land

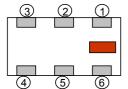
Through-hole (Ø 0.3)

Units: mm

#### K Messdiagramme/ measuring diagrams:



\* Impedance for ports 2 and 3 = ½ (Balanced Impedance)



No.	Terminal Name	No.	Terminal Name
1	Unbalanced Port (IN)	4	Balanced Port (OUT 2)
2	GND or DC feed + RF GND	(5)	GND
(3)	Balanced Port (OUT 1)	6	NC

#### Würth Elektronik eiSos GmbH & Co.KG

<sup>\*\*</sup> Bypass capacitor should be connected when feeding DC power

Kunde / customer:

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Bezeichnung : SMD-Balun WE-BAL description : Chip-Balun WE-BAL

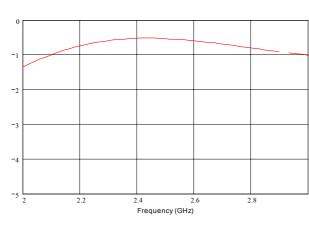




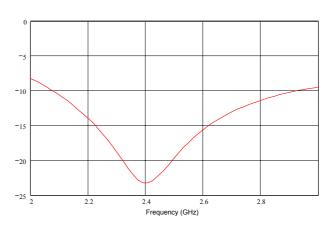
**DATUM / DATE : 2004-10-11** 

#### L Messdiagramme / measuring diagrams:

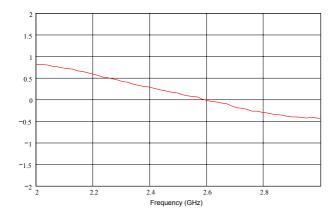
# Insertion Loss (dB)



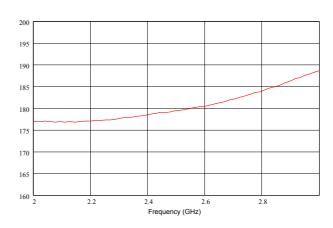
#### Return Loss (dB)



#### Amplitude Balance (dB)



#### Phase Balance (degree)



This electronic component is designed and developed with the intention for use in general electronics equipments. Before incorporating the components into any equipments in the field such as aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control), trainsportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are especially required or if there is possibility of direct damage or injury to human body. In addition, even electronic component in general electronic equipments, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed before use. It is essential to give consideration when to install a protective circuit at the design stage.

LF

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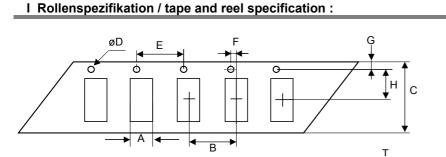
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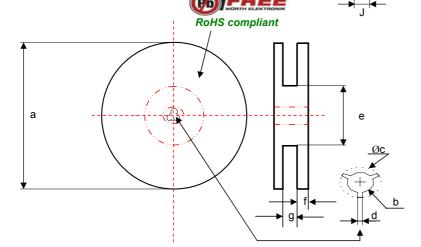
WÜRTH ELEKTRONIK

Bezeichnung : SMD-Balun WE-BAL description : Chip-Balun WE-BAL

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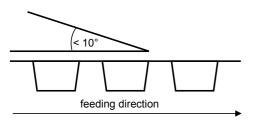


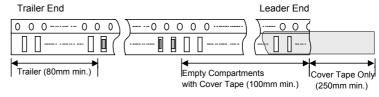
Gurtspezifikation / Tape specification:				
Α	1,6 ± 0,1	mm		
В	4,0 ± 0,1	mm		
С	8,0 ± 0,2	mm		
D	1,5 +0,1/-0,0	mm		
Е	4,0 ± 0,1	mm		
F	2,0 ± 0,1	mm		
G	1,75 ± 0,1	mm		
Н	3,5 ± 0,1	mm		
I	2,4 ± 0,1	mm		
J	1,3 max.	mm		
Т	0,2 ± 0,05	mm		



Rollenspezifikation / Reel specification:			
а	178,0 ± 2,0	mm	
b	13,0 ± 0,3	mm	
С	21,8 ± 0,8	mm	
d	2,0 ± 0,5	mm	
е	60,0 ± 0,5	mm	
f	1,2 ± 2,0	mm	
g	$9.0 \pm 0.3$	mm	

The force for tearing off cover tape is 10 to 130 grams in arrow direction





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