Spezifikation für Freigabe / specification for release

Kunde / customer : _____

Artikelnummer / part number : **748425245** LF

Bezeichnung : **SMD-Balun WE-BAL**

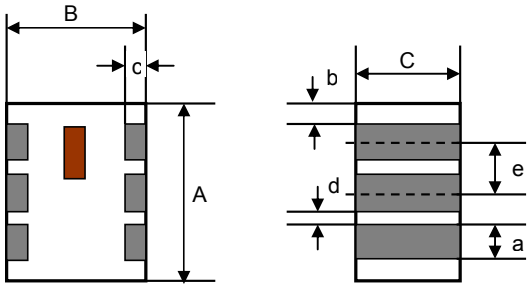
description : **Chip-Balun WE-BAL**

RoHS compliant

WÜRTH ELEKTRONIK

DATUM / DATE : 2004-10-11

A Mechanische Abmessungen / dimensions:



size	0805	
A	2,0 ± 0,1	mm
B	1,25 ± 0,1	mm
C	0,85 ± 0,1	mm
a	0,3 ± 0,1	mm
b	0,2 ± 0,1	mm
c	0,3 + 0,1/ - 0,2	mm
d	0,35 ± 0,1	mm
e	0,65 ± 0,05	mm

B Elektrische Eigenschaften / electrical properties:

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		**0,53**	dB	**typ**
VSWR VSWR	2400 … 2500 MHz		**2,0**		**max.**
VSWR VSWR	2400 … 2500 MHz		**1,22**		**typ**
Phasendifferenz/ phase difference			**180**	°	**± 10°**
Amplitudendifferenz/ amplitude difference			**2,0**	dB	**max.**
Eingangsimpedanz/ unbalanced impedance		Z	**50**	Ω	**typ.**
Ausgangsimpedanz/ balanced impedance		Z	**50**	Ω	**typ.**

C Abbildung/ apperance:

D Prüfgeräte / test equipment:

Agilent 8719 ES

E Testbedingungen / test conditions:

Luftfeuchtigkeit / humidity: 50 ~ 70%

Umgebungstemperatur / temperature: 20°C ~ 25°C

F Werkstoffe & Zulassungen / material & approvals

Basismaterial / base material: Keramik / ceramic

Kontaktmaterial / contact plating: AG + Ni + Sn

G Eigenschaften / general specifications:

Betriebstemp. / operating temperature: -40°C - +85°C

Lagerbedingungen / storage conditions: 15°C ~ 35°C

45 ~ 75% RH

Leistung/ power capacity : 3 W max.

Freigabe erteilt / general release:

Kunde / customer

Datum / date

Unterschrift / signature

Würth Elektronik

Geprüft / checked

Kontrolliert / approved

Name	Änderung / modification	Datum/date
AWe	Version 1	04-10-11

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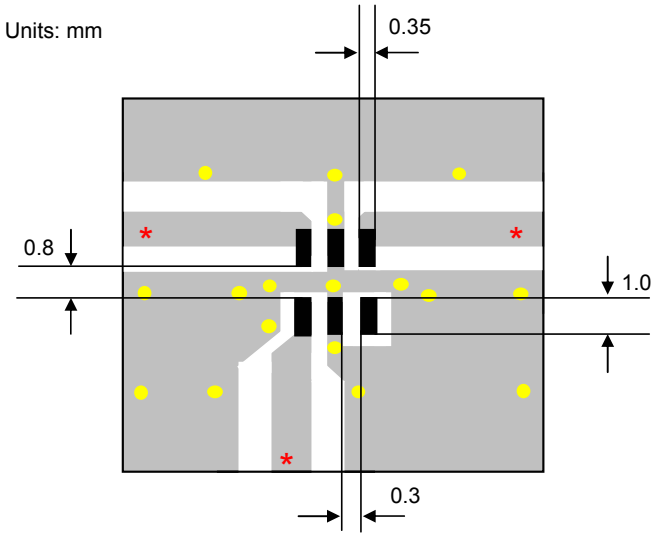
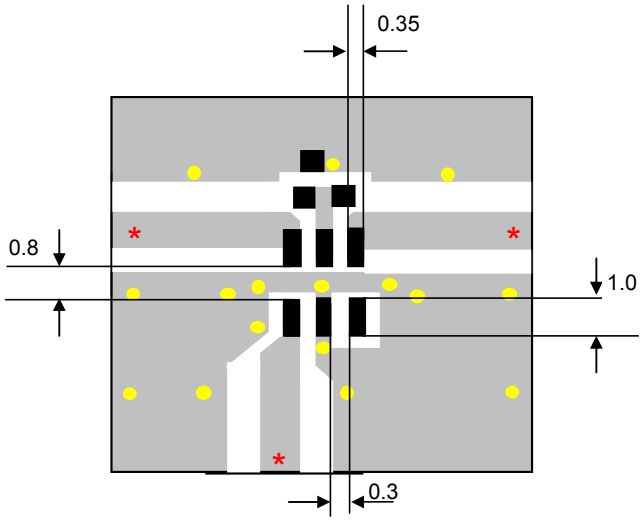
H Lötpadempfehlung / solder pads:

ohne/ without DC-feed:



mit/ with DC-feed:



* Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

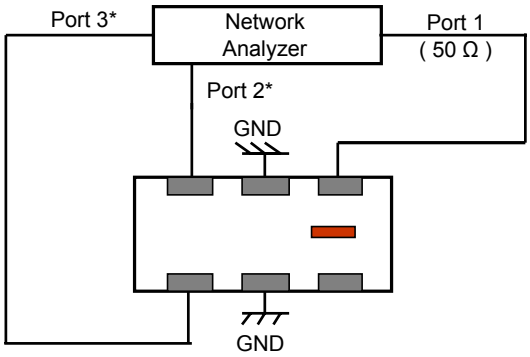
** Bypass capacitor should be connected when feeding DC power

Solder Resist

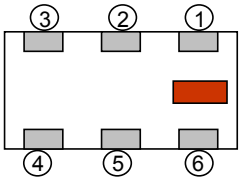
Land

Through-hole (Ø0.3)

K Messdiagramme/ measuring diagrams:



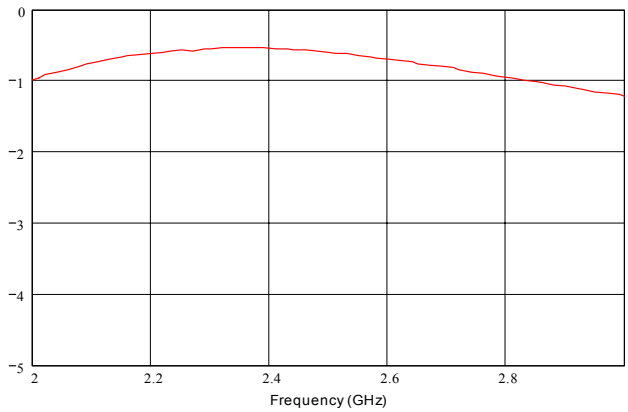
* Impedance for ports 2 and 3 = ½ (Balanced Impedance)



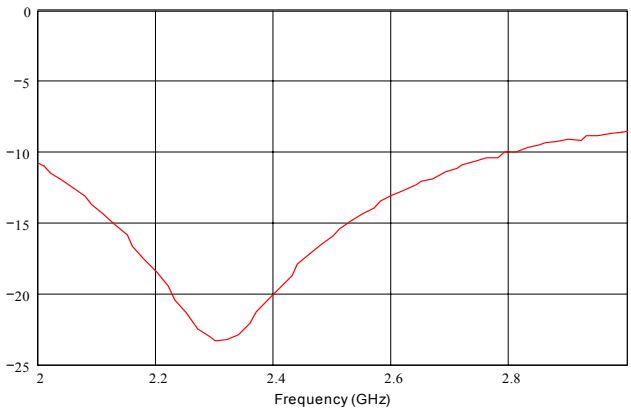
No.	Terminal Name	No.	Terminal Name
①	Unbalanced Port	④	Balanced Port
②	GND or **DC feed + RF GND**	⑤	GND
③	Balanced Port	⑥	NC

L Messdiagramme / measuring diagrams:

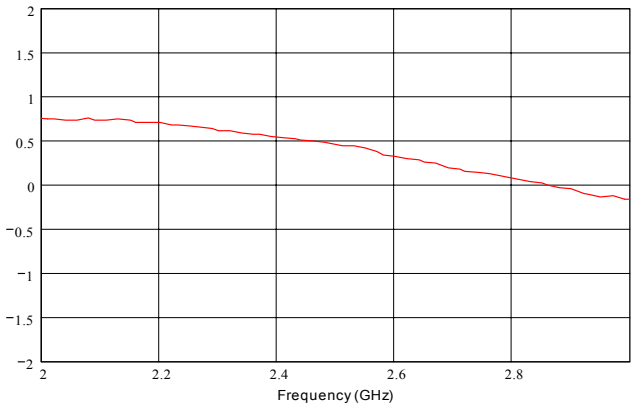
Insertion Loss (dB)



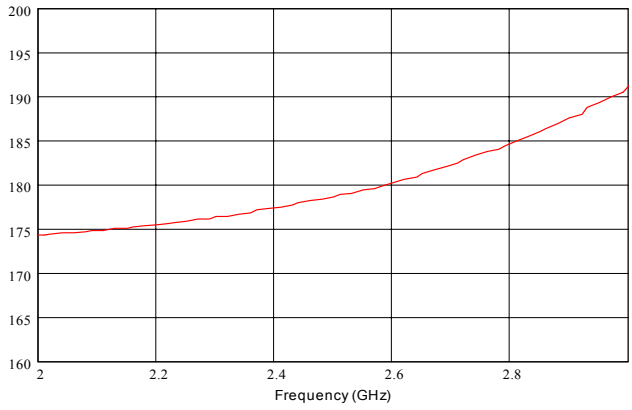
Return Loss (dB)



Amplitude Balance (dB)



Phase Balance (degree)



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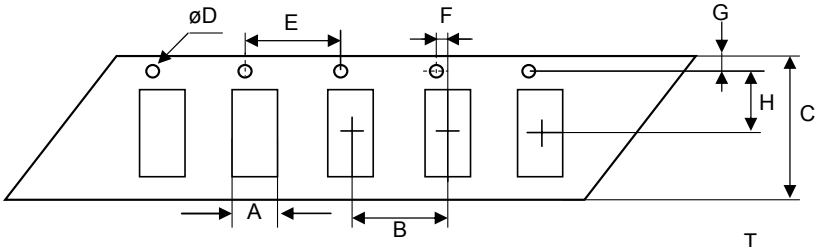
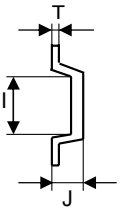
description : **Chip-Balun WE-BAL**

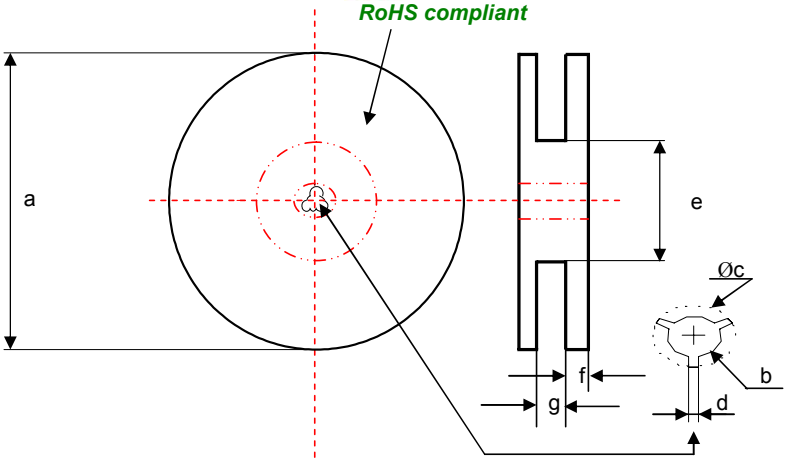
DATUM / DATE : 2004-10-11

I Rollenspezifikation / tape and reel specification :





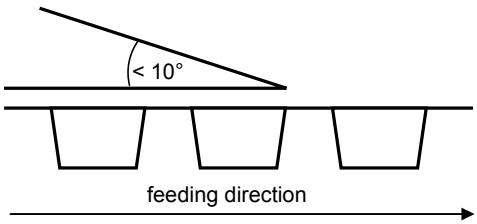
RoHS compliant

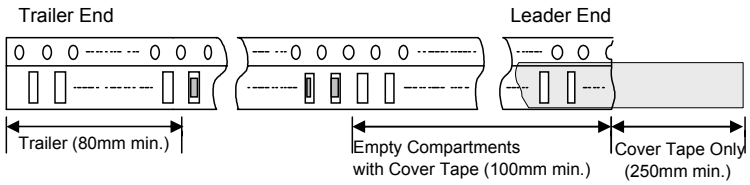


Gurtspezifikation / Tape specification:		
A	**1,6 ± 0,1**	mm
B	**4,0 ± 0,1**	mm
C	**8,0 ± 0,2**	mm
D	**1,5 +0,1/-0,0**	mm
E	**4,0 ± 0,1**	mm
F	**2,0 ± 0,1**	mm
G	**1,75 ± 0,1**	mm
H	**3,5 ± 0,1**	mm
I	**2,4 ± 0,1**	mm
J	**1,3 max.**	mm
T	**0,2 ± 0,05**	mm

Rollenspezifikation / Reel specification:		
a	**178,0 ± 2,0**	mm
b	**13,0 ± 0,3**	mm
c	**21,8 ± 0,8**	mm
d	**2,0 ± 0,5**	mm
e	**60,0 ± 0,5**	mm
f	**1,2 ± 2,0**	mm
g	**9,0 ± 0,3**	mm

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





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