Spezifikation für Freigabe / specification for release

Kunde / customer : _____

Artikelnummer / part number : **7488912455** LF

Bezeichnung : **Multilayer Dual-Band Chip Antenne WE-MCA**

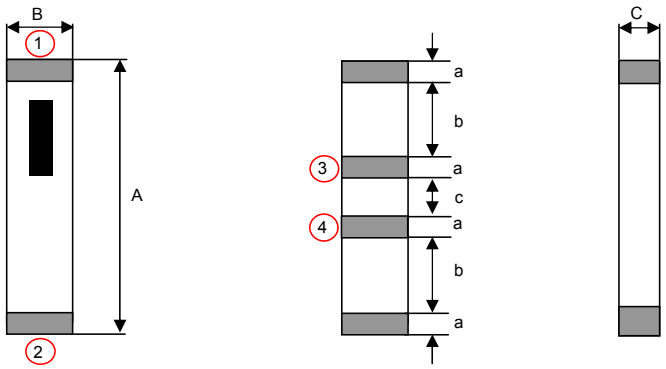
description : **Multilayer Dual-Band Chip Antenna WE-MCA**

RoHS compliant

DATUM / DATE : 2004-10-11

A Mechanische Abmessungen / dimensions:

	size	8,5 x 1,6	



A	8,5 ± 0,2	mm
B	1,6 ± 0,2	mm
C	1,2 +0,1/-0,2	mm
a	0,51 ± 0,15	mm
b	2,64 ± 0,15	mm
c	1,18 ± 0,15	mm
1	NC	
2	NC	
3	Feeding Point for Low Band	
4	Feeding Point for High Band	

B Elektrische Eigenschaften / electrical properties:

Eigenschaften / properties	Wert / value		Wert / value	Einheit /unit	tol.
Frequenzbereich/ frequency range	2400 ~ 2500		4900 ~ 5875	MHz	
VSWR VSWR	2,2		2,2		max.
Impedanz / impedance	50		50	Ω	
Antennengewinn / peak gain	1 (XZ-V)		-1,5 (YX-V)	dBi	typ.
Antennengewinn / average gain	-2,5 (XZ-V)		-2,5 (YX-V)	dBi	typ.

C Abbildung/ apperance:

D Prüfgeräte / test equipment:

Agilent E5071A

E Testbedingungen / test conditions:

Luftfeuchtigkeit / humidity: 50 ~ 70%

Umgebungstemperatur / temperature: 20°C ~ 25°C

F Werkstoffe & Zulassungen / material & approvals

Basismaterial / base material: Keramik / ceramic

Kontakt Material / contact plating: Ag + Ni + Sn

G Eigenschaften / general specifications:

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

Lagerbedingung / 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

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

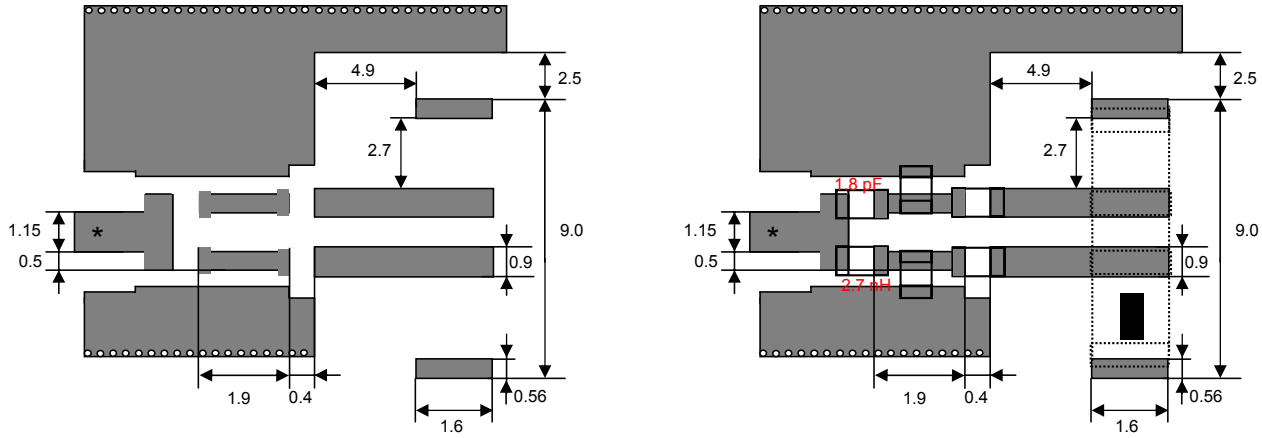
Würth Elektronik eiSos GmbH & Co.KG

D-74638 Waldenburg · Max-Eyth-Str. 1 · Germany · Telefon (+49) (0) 7942 - 945 - 0 · Telefax (+49) (0) 7942 - 945 - 400

http://www.we-online.de

H Lötpadempfehlung / solder pads:

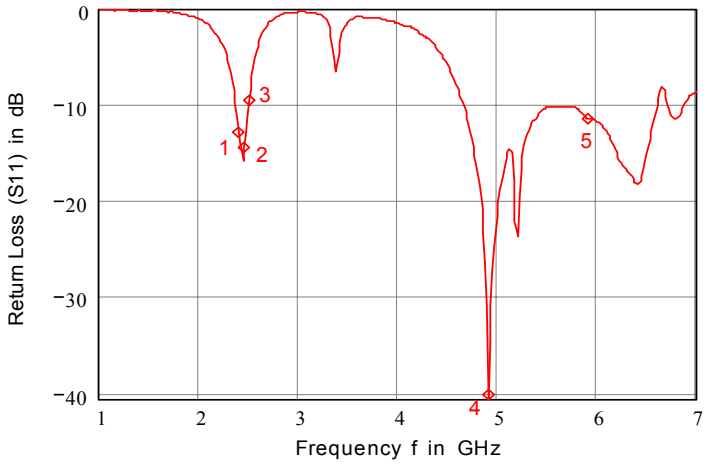
With Matching Circuit:
Matching Circuit is recommended



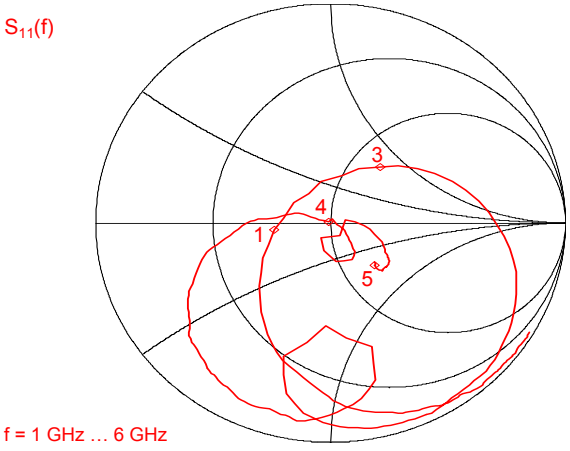
*Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.
(Matching circuit and component values will be different, depending on PCB layout)

K Messdiagramme/ measuring diagrams:

With Matching Circuit:



1: 2.4 GHz -12.84 dB
2: 2.45 GHz -14.34 dB
3: 2.5 GHz -9.6 dB
4. 4.9 GHz -40.9 dB
5. 5.9 GHz -11.39 dB



Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number : **7488912455** LF

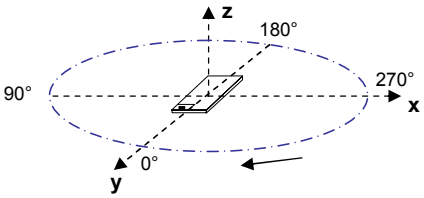
Bezeichnung : **Multilayer Dual-Band Chip Antenne WE-MCA**

description : **Multilayer Dual-Band Chip Antenna WE-MCA**

RoHS compliant

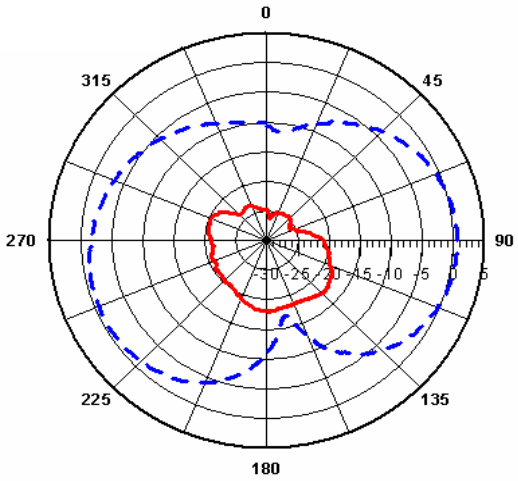
DATUM / DATE : 2004-10-11

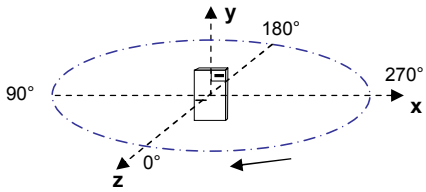
L Richtdiagramme / radiation patterns:



XY cut @ 2.45 GHz
Vertical
Horizontal

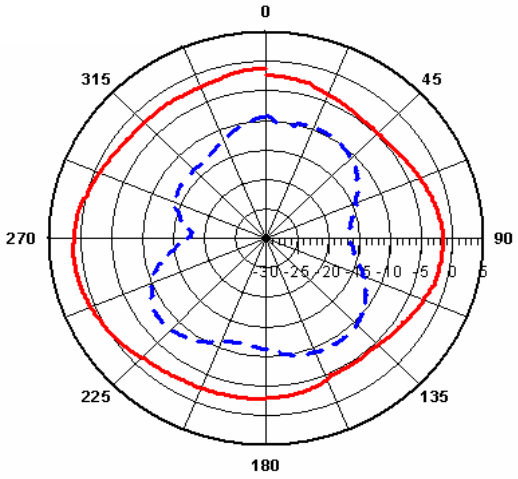
XY-cut scanning direction

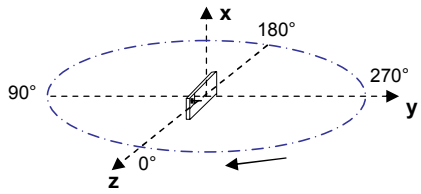




XZ cut @ 2.45 GHz
Vertical
Horizontal

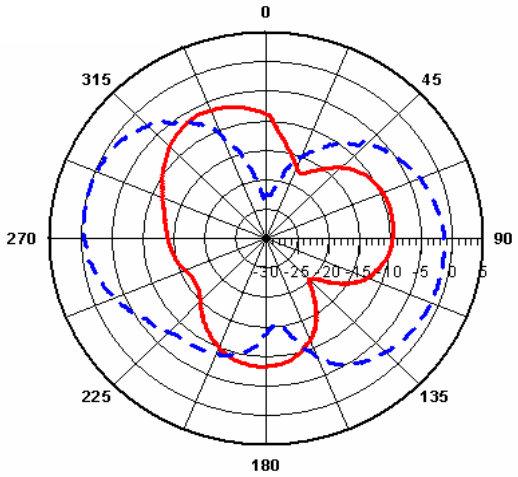
XZ-cut scanning direction



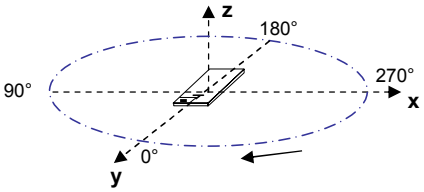


YZ cut @ 2.45 GHz
Vertical
Horizontal

YZ-cut scanning direction

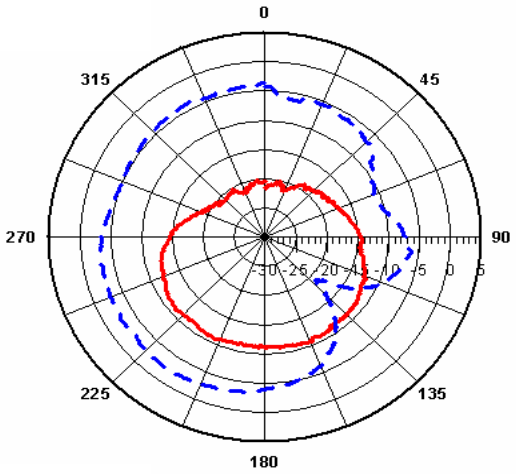


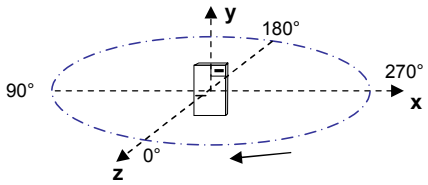
L Richtdiagramme / radiation patterns:



XY cut @ 5.4 GHz
Vertical
Horizontal

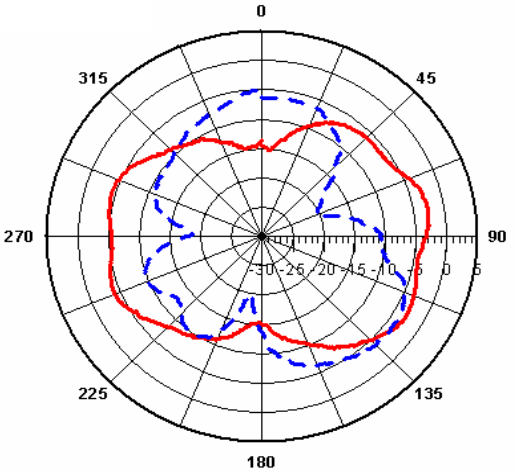
XY-cut scanning direction

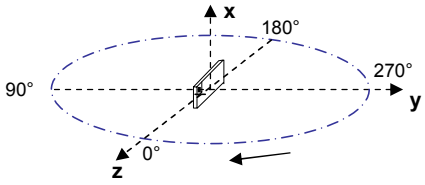




XZ cut @ 5.4 GHz
Vertical
Horizontal

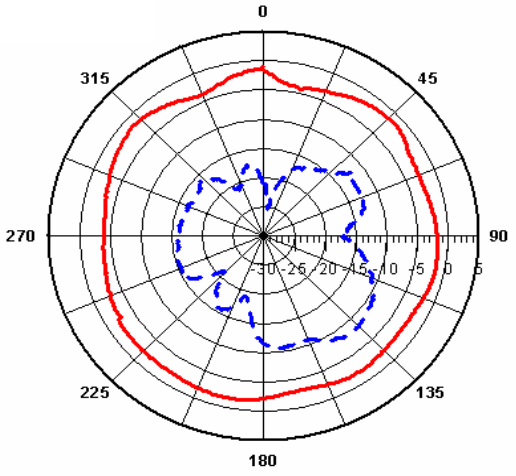
XZ-cut scanning direction





YZ cut @ 5.4 GHz
Vertical
Horizontal

YZ-cut scanning direction



Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number : **7488912455** LF

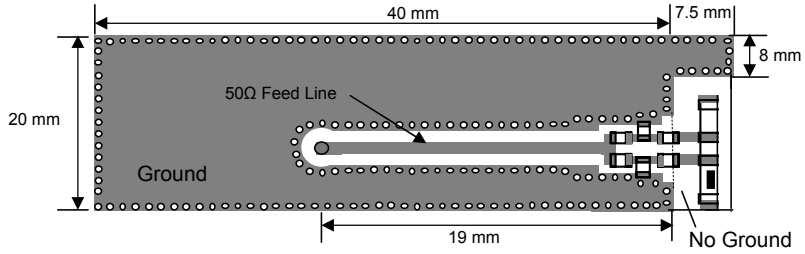
Bezeichnung : **Multilayer Dual-Band Chip Antenne WE-MCA**

description : **Multilayer Dual-Band Chip Antenna WE-MCA**

RoHS compliant

DATUM / DATE : 2004-10-11

M Testboard / evaluation board:



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, ship control), transportation 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.

Würth Elektronik eiSos GmbH & Co.KG

D-74638 Waldenburg · Max-Eyth-Str. 1 · Germany · Telefon (+49) (0) 7942 - 945 - 0 · Telefax (+49) (0) 7942 - 945 - 400

http://www.we-online.de