Spezifikation für Freigabe / specification for release

Kunde / customer : _____

Artikelnummer / part number : **7488910245** LF

Bezeichnung : **SMD Antenne WE-MCA**

description : **Chip-Antenna WE-MCA**

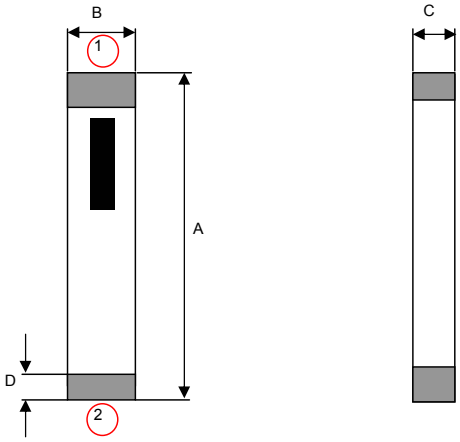
RoHS compliant

WÜRTH ELEKTRONIK

DATUM / DATE : 2004-10-11

A Mechanische Abmessungen / dimensions:

size	9,5 x 2	



A	9,5 ± 0,2	mm
B	2,0 ± 0,2	mm
C	1,2 +0,1/- 0,2	mm
D	0,5 ± 0,3	mm

1	Feeding Point	
2	NC	

B Elektrische Eigenschaften / electrical properties:

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Frequenzbereich/ frequency range		f	**2400 … 2500**	MHz	
VSWR VSWR			**2,0**		**max.**
Impedanz / impedance		Z	**50**	Ω	
Antennengewinn / peak gain	**(XZ-V)**	A	**3,0**	dBi	**typ.**
Antennengewinn / average gain	**(XZ-V)**	A	**1,0**	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

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

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

Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number : **7488910245** LF

Bezeichnung : **SMD Antenne WE-MCA**

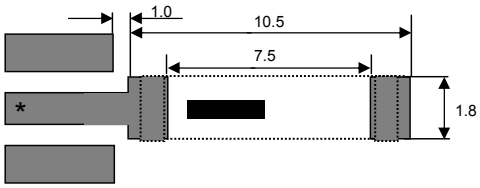
description : **Chip-Antenna WE-MCA**

RoHS compliant

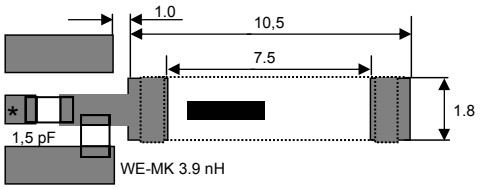
DATUM / DATE : 2004-10-11

H Lötpadempfehlung / solder pads:

Without Matching Circuit:



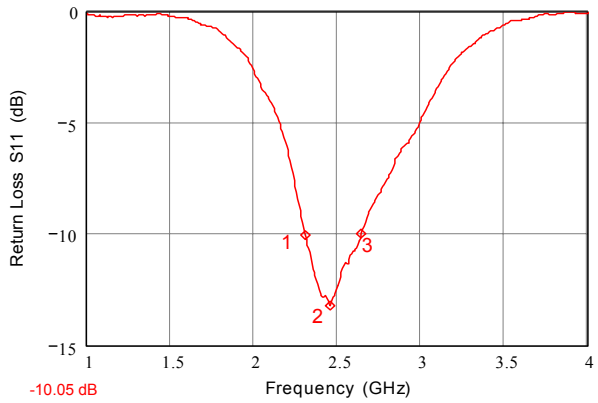
With Matching Circuit:



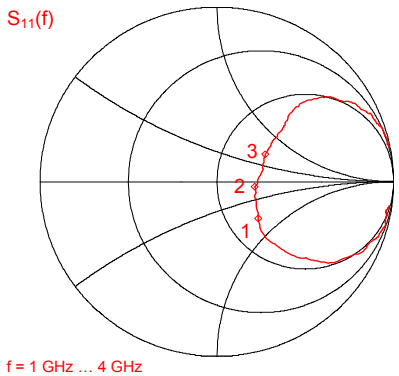
*Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.
(Matching circuit and component values will be different, depending on PCB layout)

K Messdiagramme/ measuring diagrams:

Without Matching Circuit:

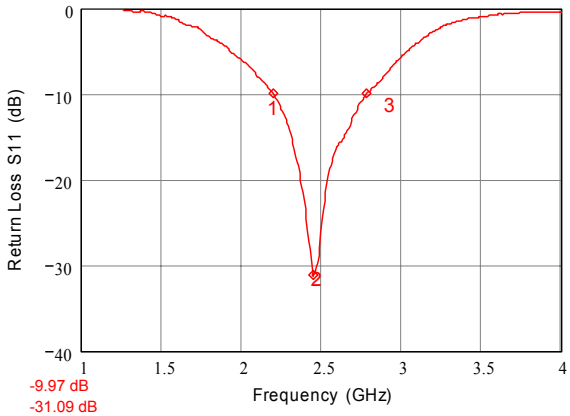


1: 2.305 GHz -10.05 dB
2: 2.455 GHz -13.23 dB
3: 2.64 GHz -9.98 dB

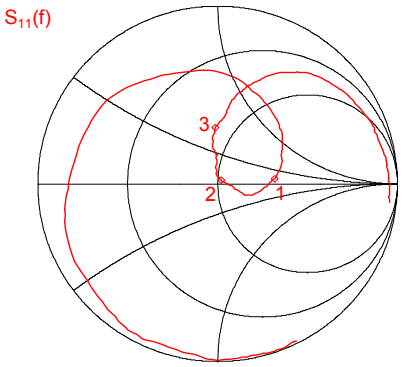


f = 1 GHz ... 4 GHz

With Matching Circuit:

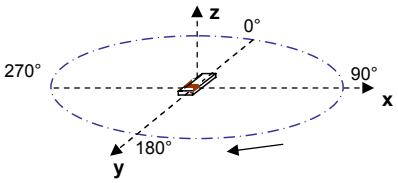


1: 2.19 GHz -9.97 dB
2: 2.45 GHz -31.09 dB
3: 2.78 GHz -9.99 dB

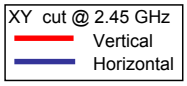


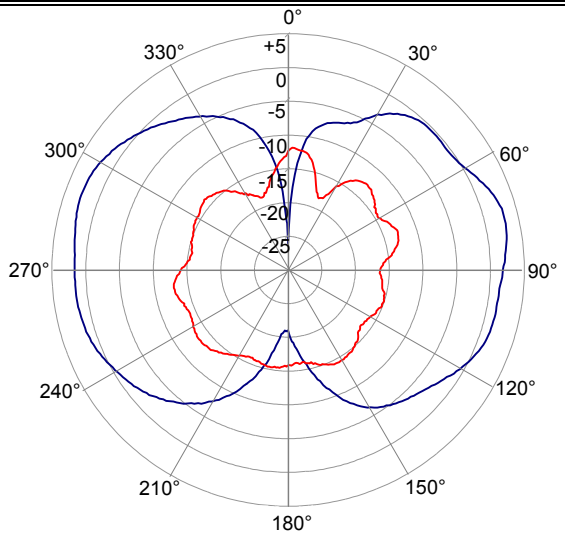
f = 1 GHz ... 4 GHz

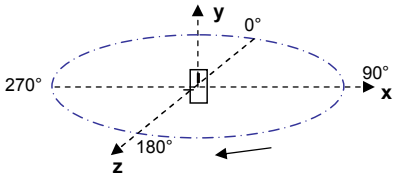
L Richtdiagramme / radiation patterns:



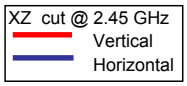
XY-cut scanning direction

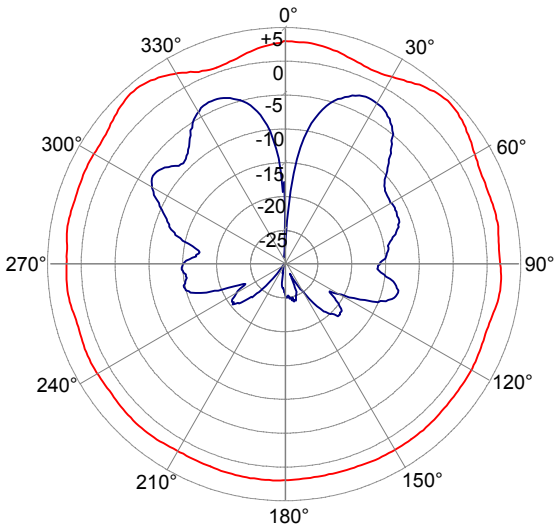


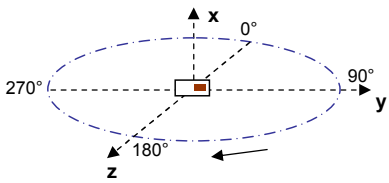




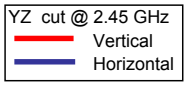
XZ-cut scanning direction

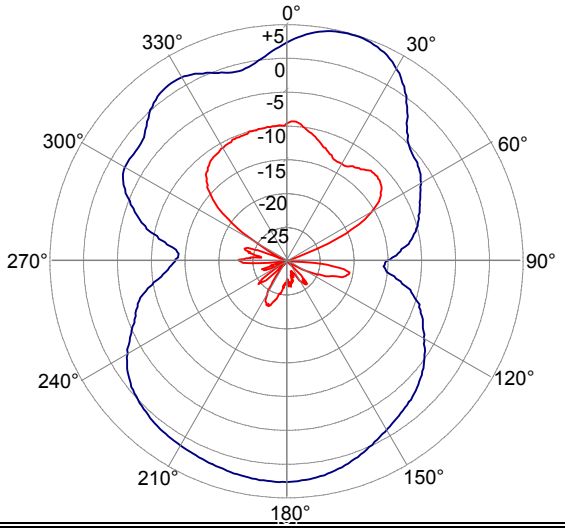






YZ-cut scanning direction





Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number : **7488910245** LF

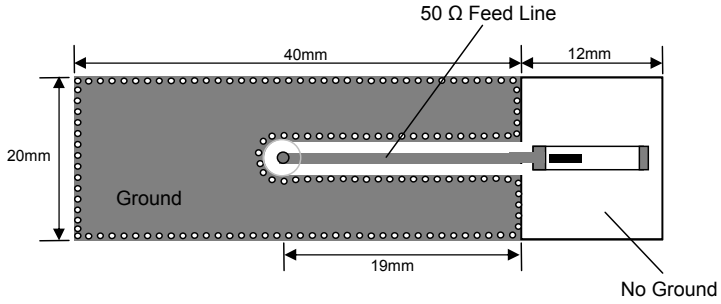
RoHS compliant

Bezeichnung : **SMD Antenne WE-MCA**

description : **Chip-Antenna WE-MCA**

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