preliminary specification for release

Kunde / customer : _____

Artikelnummer / part number : **7488910043** LF

Bezeichnung : **SMD Antenne WE-MCA**

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

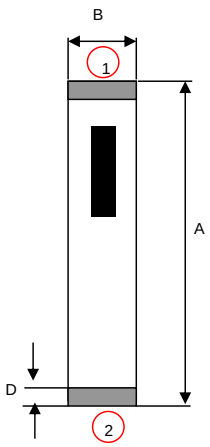
compliant RoHS WÜRTH ELEKTRONIK

WÜRTH ELEKTRONIK

DATUM / DATE : 2012-08-07

A Mechanische Abmessungen / dimensions:

size	11 x 5,1	

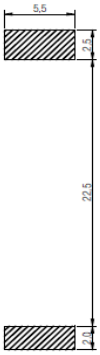


A	**25 ± 0,2**	mm
B	**5 ± 0,2**	mm
C	**1,2 ± 0,1**	mm
D	**1,0 ± 0,2**	mm
1	**Feeding Point**	
2	**NC**	

B Elektrische Eigenschaften / electrical properties:

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Frequenzbereich/ frequency range		f	**423 … 443**	MHz	
VSWR VSWR			**2,0**		**max.**
Impedanz / impedance		Z	**50**	Ω	
Antennengewinn / peak gain	**(XZ-V)**	A	**-4,0**	dBi	**typ.**
Antennengewinn / average gain	**(XZ-V)**	A	**-4,0**	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: 5°C ~ 35°C

45 ~ 75% RH

Leistung/ power capacity : 2 W max.

Freigabe erteilt / general release:

Kunde / customer	
Datum / date	Unterschrift / signature
Würth Elektronik	
Geprüft / checked	Kontrolliert / approved

HBH	Version 1	12-08-07
Name	**Änderung / modification**	Datum / date

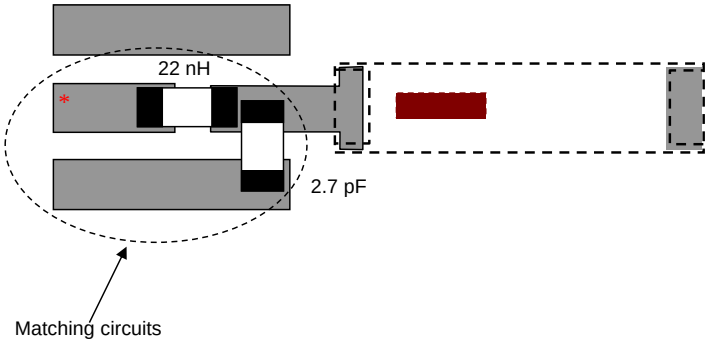
Würth Elektronik eiSos GmbH & Co.KG

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

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H Lötpadempfehlung / solder pads:

With Matching Circuit:

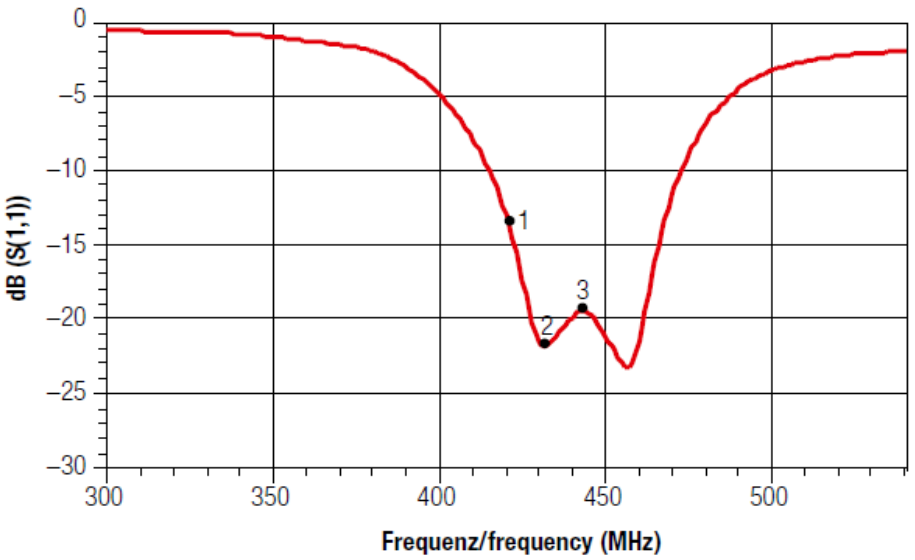


(Matching circuit and component values will be different, depending on PCB layout)

*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: 423 MHz - 15.4 dB
2: 433 MHz - 21.7 dB
3: 443 MHz -19.4 dB

Spezifikation für Freigabe / specification for release

Kunde / customer :

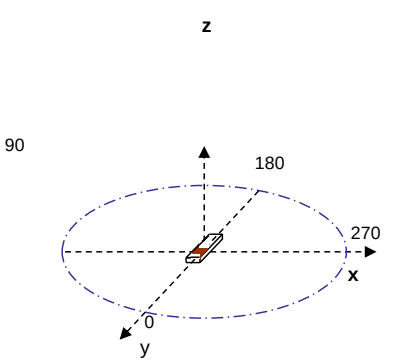
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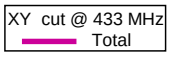
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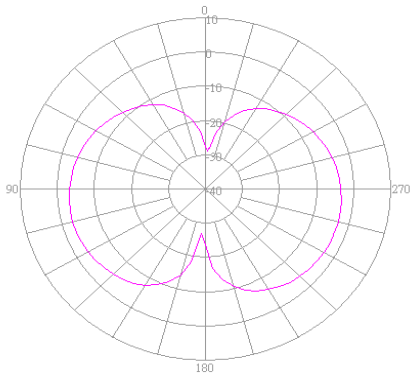
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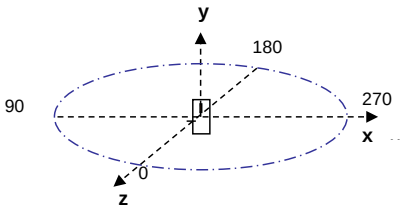
L Richtdiagramme / radiation patterns:

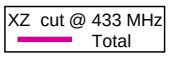


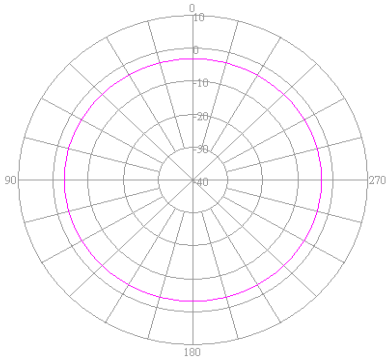




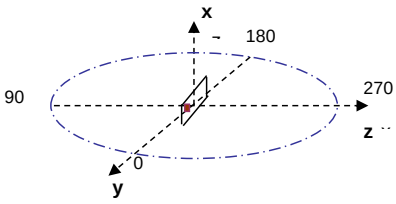
XY-cut scanning direction

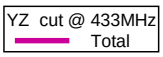


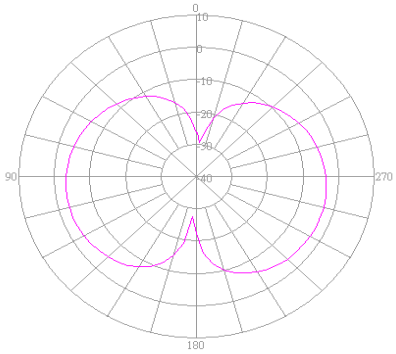




XZ-cut scanning direction

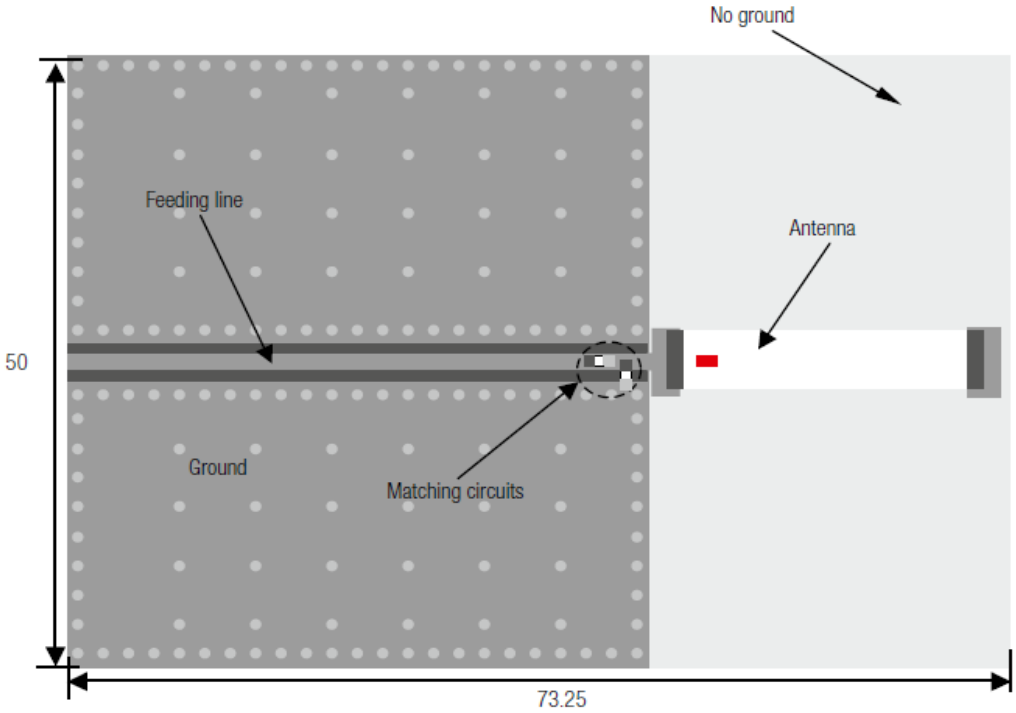






YZ-cut scanning direction

M Testboard / evaluation board:



This electronic component has been designed and developed for usage in general electronic equipment. Before incorporating thi s component into any equipment where higher safety and reliability is especially required or if there is the possibility of direct damage or injury to human body, for example in th e range of aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information ne twork etc, Würth Elektronik eiSos GmbH must be informed before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic componen t which is used in electrical circuits that require high safety and reliability functions or performance.

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