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[Wurth Electronics Inc](#)
[7488910235](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

Spezifikation für Freigabe / specification for release

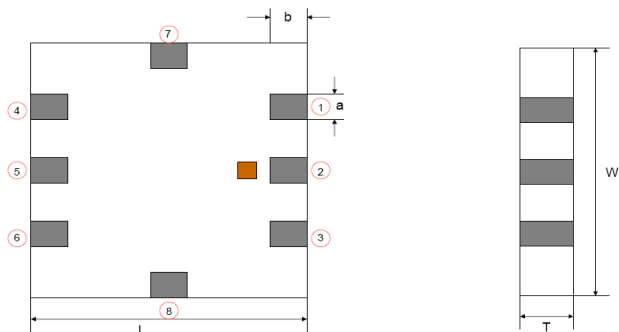
Kunde / customer : _____
 Artikelnummer / part number : **7488910235**
 Bezeichnung : **SMD Antenne WE-MCA**
 description : **Chip-Antenna WE-MCA**



DATUM / DATE : 2006-11-22

A Mechanische Abmessungen / dimensions:

size	10 x 10	
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L	10,0 ± 0,3	mm
W	10,0 ± 0,3	mm
a	1,0 ± 0,3	mm
b	1,0 ± 0,3	mm
T	0,8 ± 0,2	mm
①	GND	
②	Feeding Point	
③	GND	
④	NC	
⑤	NC	
⑥	NC	
⑦	NC	
⑧	NC	

B Elektrische Eigenschaften / electrical properties:

Eigenschaften / properties		Wert / value	Wert / value	Wert / value	Einheit / unit	tol.
Frequenzbereich / frequency range	f	2300 ... 2690	3300 ... 3900	5150 ... 5875	MHz	
VSWR		2,0	2,0	2,0		max.
Impedanz / impedance	Z	50	50	50	Ω	
Antennengewinn / peak gain (XZ-V)	A	2,0	2,0	2,0	dBi	typ.
Antennengewinn / average gain (XZ-V)	A	- 2,0	- 4,0	- 3,0	dBi	typ.

C Abbildung / appearance:

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: -40°C ~ +85°C
 45 ~ 75% RH
 Leistung/ power capacity : 5 W max.

Freigabe erteilt / general release:	Kunde / customer			
.....			
Datum / date	Unterschrift / signature			
	Würth Elektronik			
.....			
Geprüft / checked	Kontrolliert / approved	Name	Änderung / modification	Datum / date
		Skle	Version 1	06-11-22

Würth Elektronik eiSos GmbH & Co.KG

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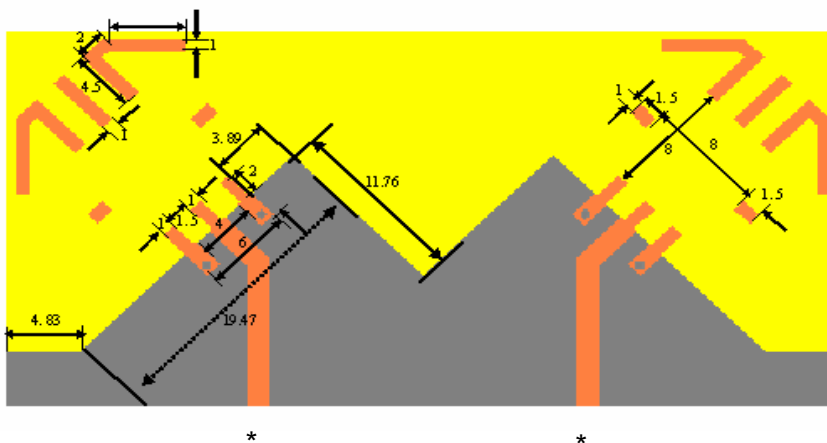
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H Lötpadempfehlung / solder pads:

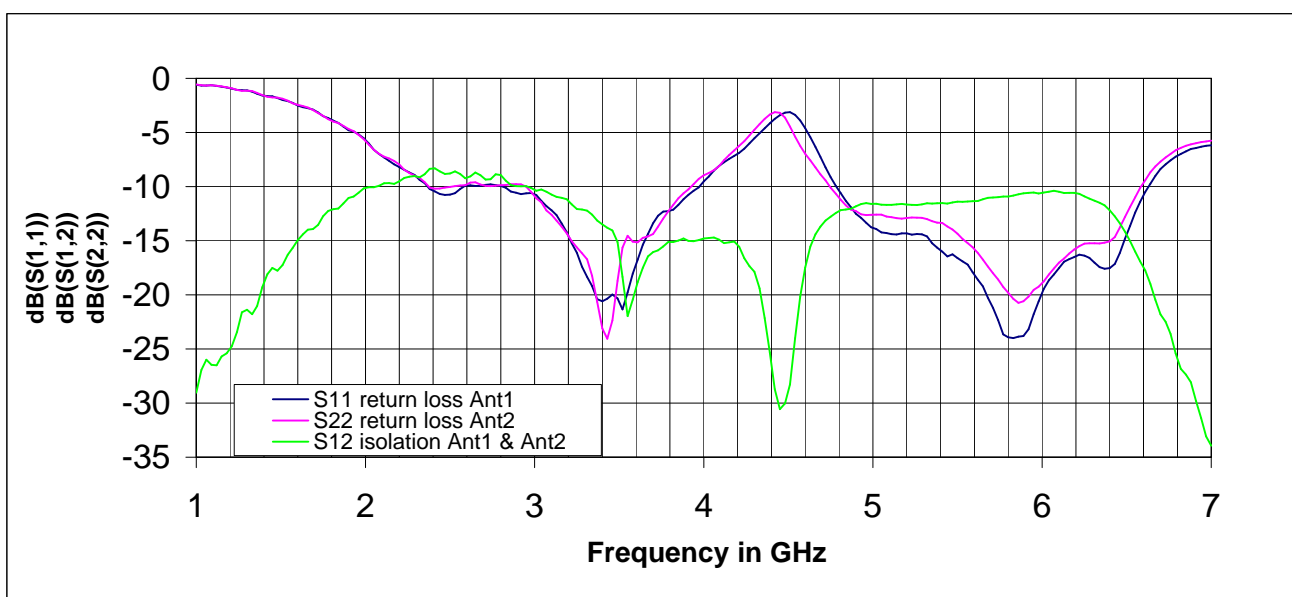
Without Matching Circuit:



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

K Messdiagramme/ measuring diagrams:

Without Matching Circuit:



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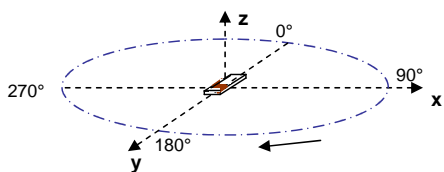


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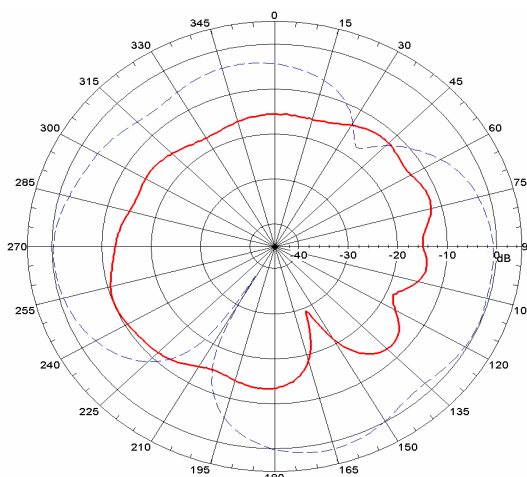
L Richtdiagramme / radiation patterns:

Antenna 1

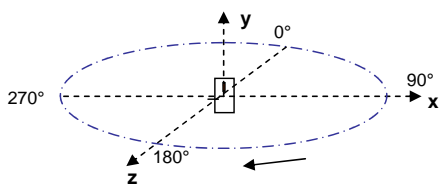
XY cut @ 2.45 GHz
 — Vertical
 — Horizontal



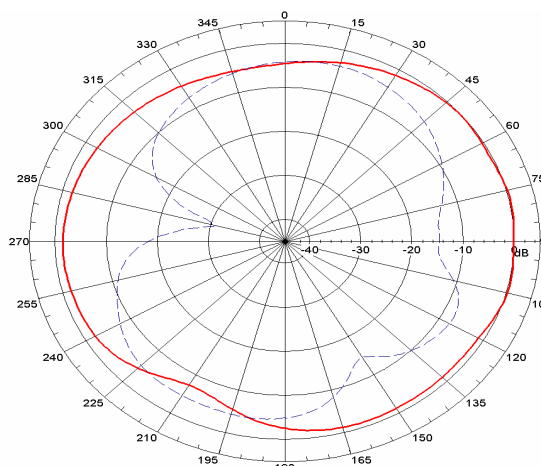
XY-cut scanning direction



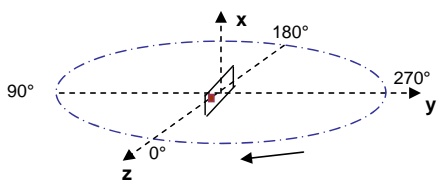
XZ cut @ 2.45 GHz
 — Vertical
 — Horizontal



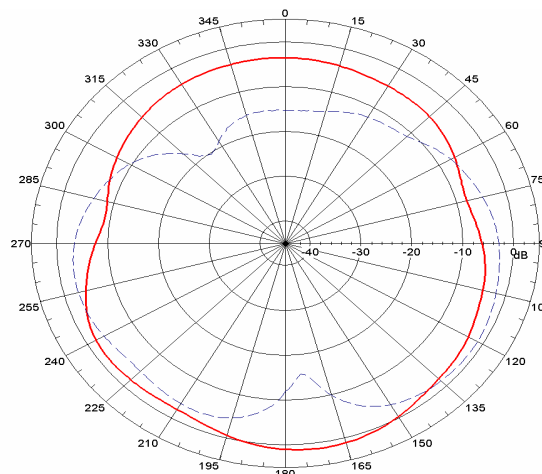
XZ-cut scanning direction



YZ cut @ 2.45 GHz
 — Vertical
 — Horizontal



YZ-cut scanning direction



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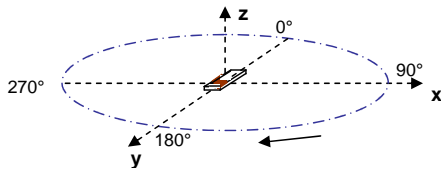
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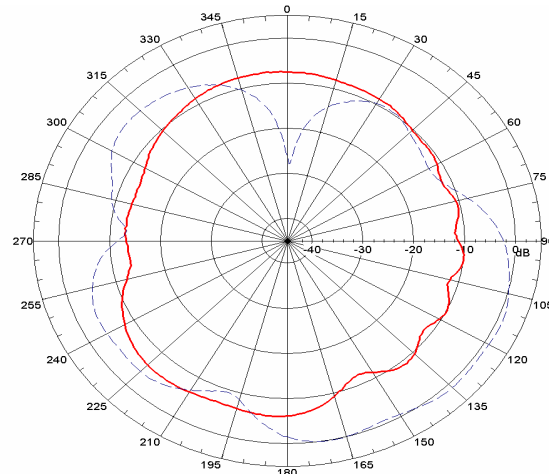
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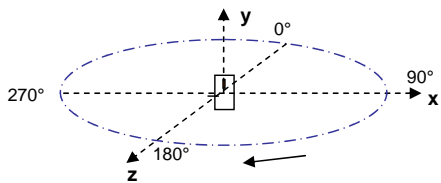
XY cut @ 3,6 GHz
 — Vertical
 — Horizontal



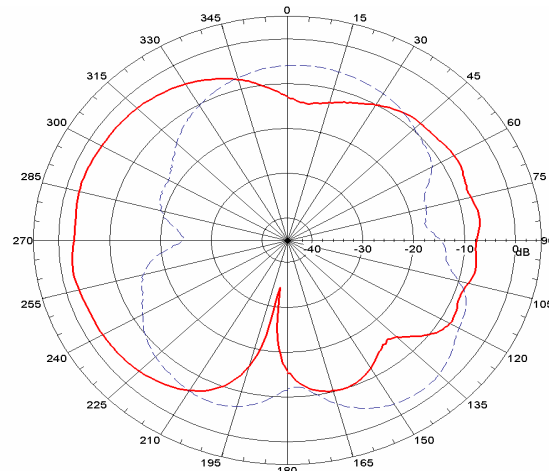
XY-cut scanning direction



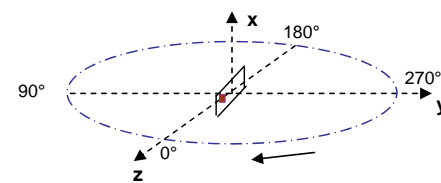
XZ cut @ 3,6 GHz
 — Vertical
 — Horizontal



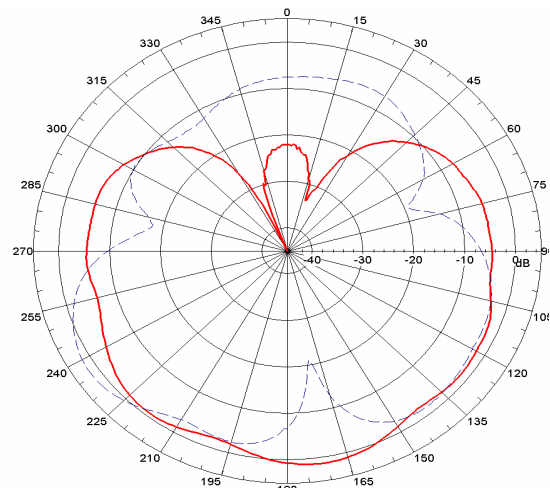
XZ-cut scanning direction



YZ cut @ 3,6 GHz
 — Vertical
 — Horizontal



YZ-cut scanning direction



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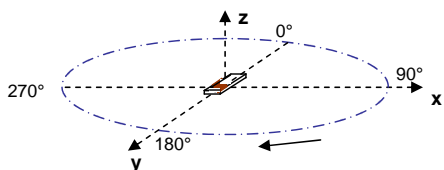
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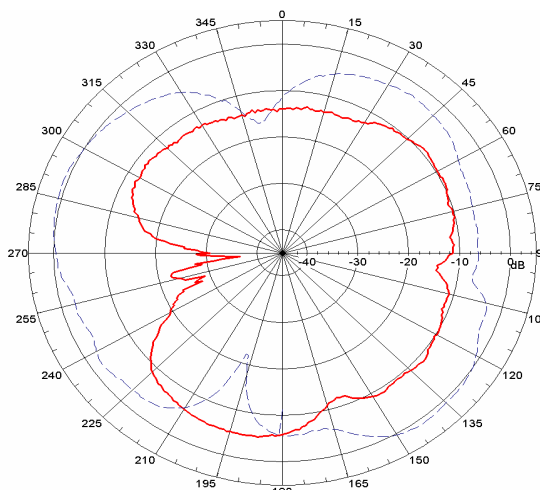
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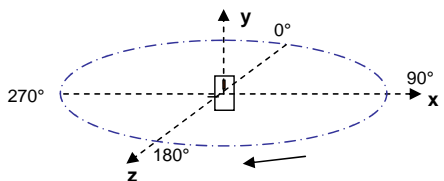
XY cut @ 5,5 GHz
 Vertical (red line)
 Horizontal (blue line)



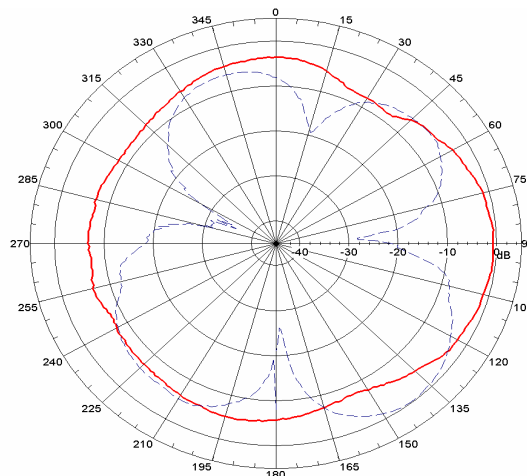
XY-cut scanning direction



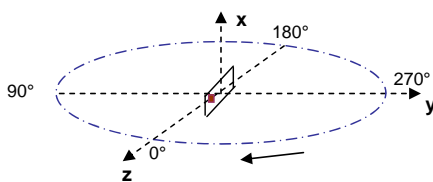
XZ cut @ 5,5 GHz
 Vertical (red line)
 Horizontal (blue line)



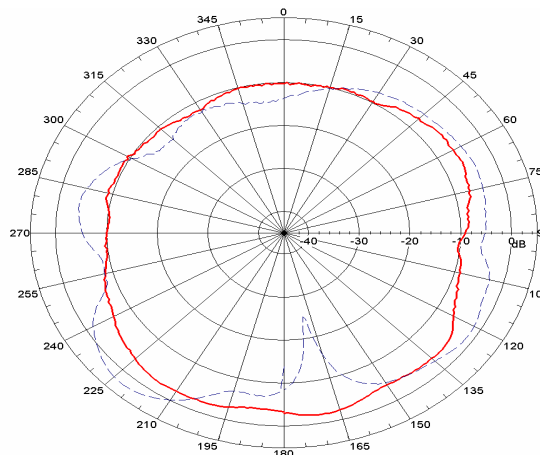
XZ-cut scanning direction



YZ cut @ 5,5 GHz
 Vertical (red line)
 Horizontal (blue line)



YZ-cut scanning direction



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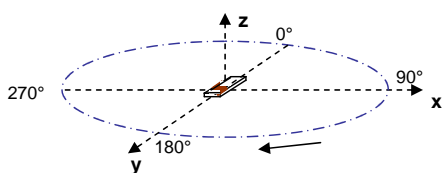
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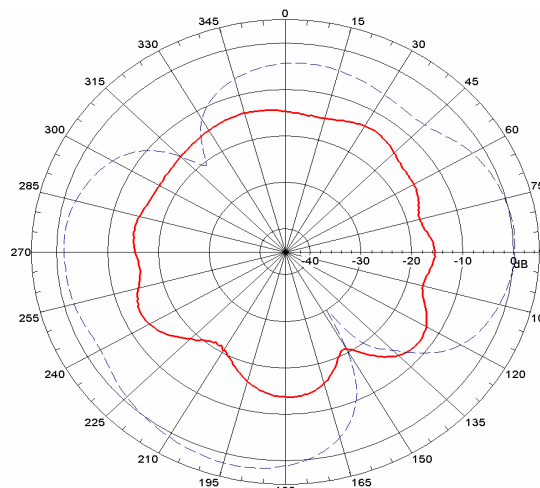
L Richtdiagramme / radiation patterns:

Antenna 2

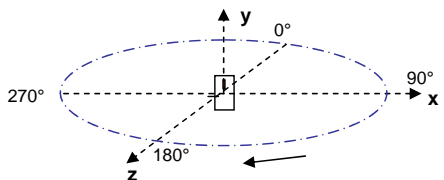
XY cut @ 2,45 GHz
 — Vertical
 — Horizontal



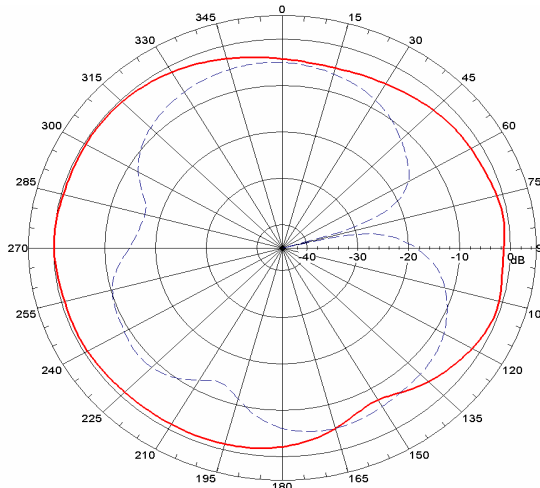
XY-cut scanning direction



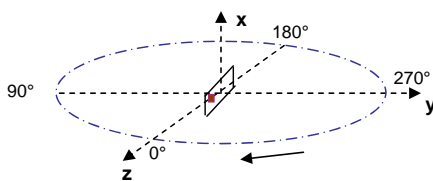
XZ cut @ 2,45 GHz
 — Vertical
 — Horizontal



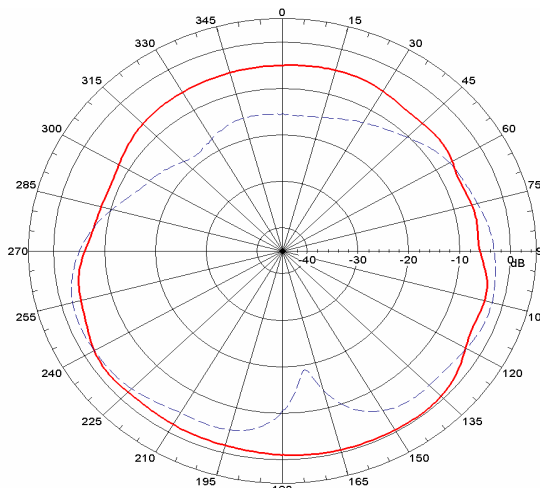
XZ-cut scanning direction



YZ cut @ 2,45 GHz
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 — Horizontal



YZ-cut scanning direction



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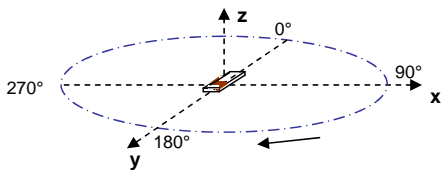
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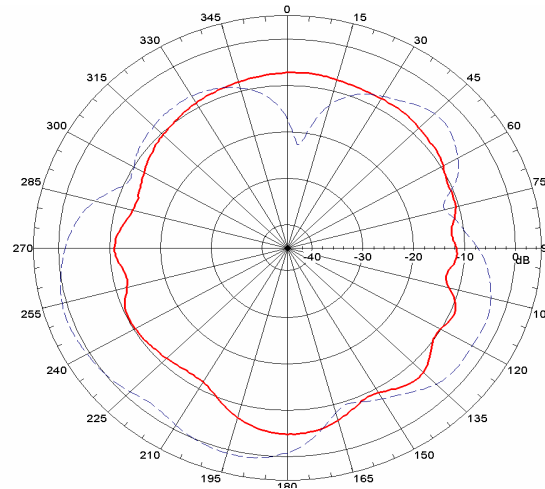
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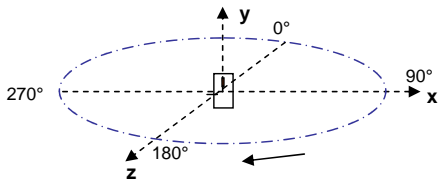
XY cut @ 3,6 GHz
 — Vertical
 — Horizontal



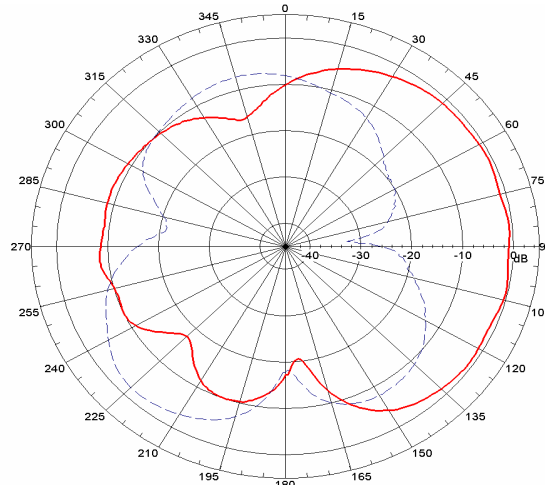
XY-cut scanning direction



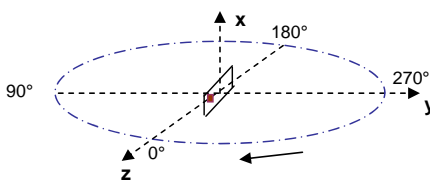
XZ cut @ 3,6 GHz
 — Vertical
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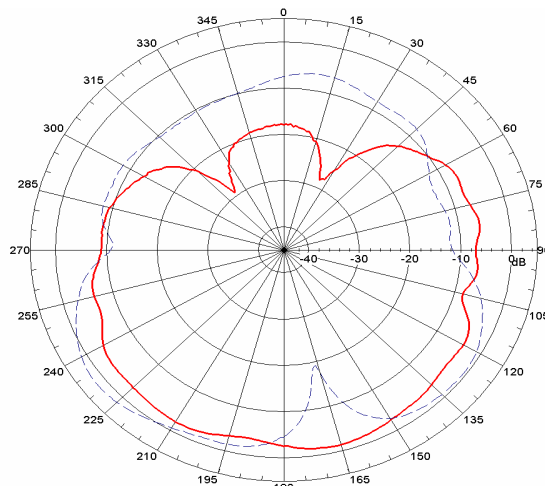
XZ-cut scanning direction



YZ cut @ 3,6 GHz
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YZ-cut scanning direction



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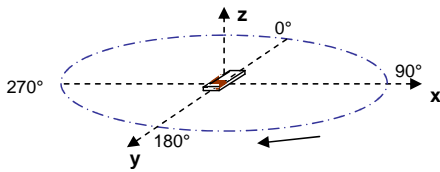
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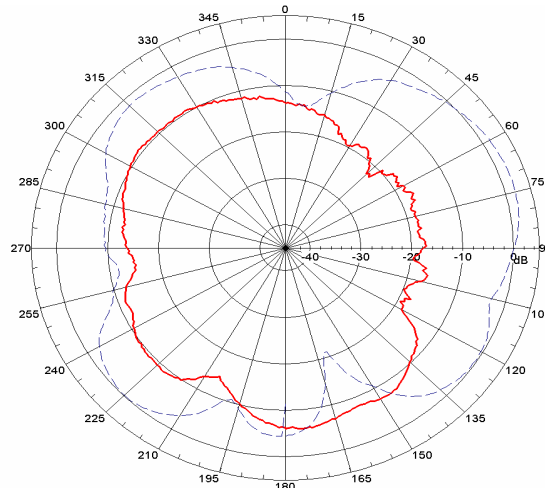
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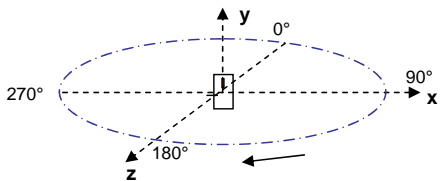
XY cut @ 5,5 GHz
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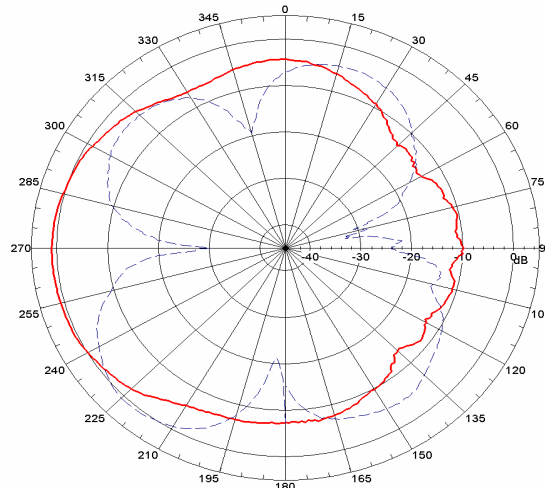
XY-cut scanning direction



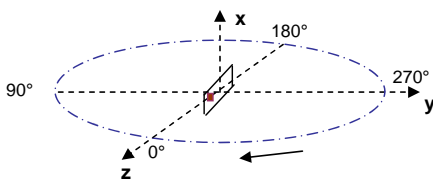
XZ cut @ 5,5 GHz
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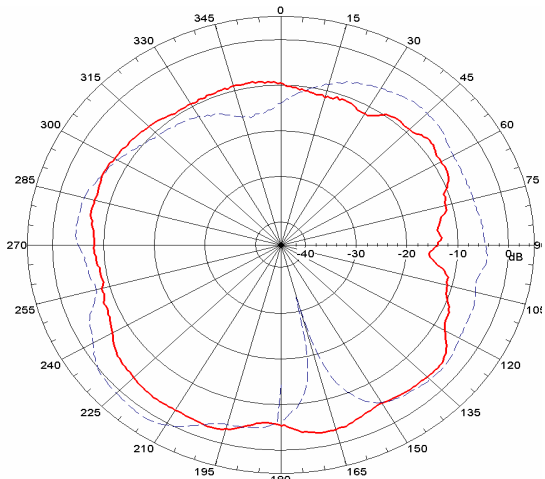
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 — Horizontal



YZ-cut scanning direction



This electronic component has been designed and developed for usage in general electronic equipment. Before incorporating this 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 the range of aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network 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 component which is used in electrical circuits that require high safety and reliability functions or performance.