



Radiation Technology, Inc.

昆山昕芮特电子科技有限公司

Specification For Approval

Customer:111800

**Description: 434 \pm 5 MHz, MMCX to
RG178, Cable 275 \pm 2mm**

Customer P/N: N/A

RTI P/N:C0448-ANG0003

Customer Rev: N/A

RTI Rev: SA

Date:2023.09.13

Radiation Technology Inc. Approval



SYSTEM CERTIFIED

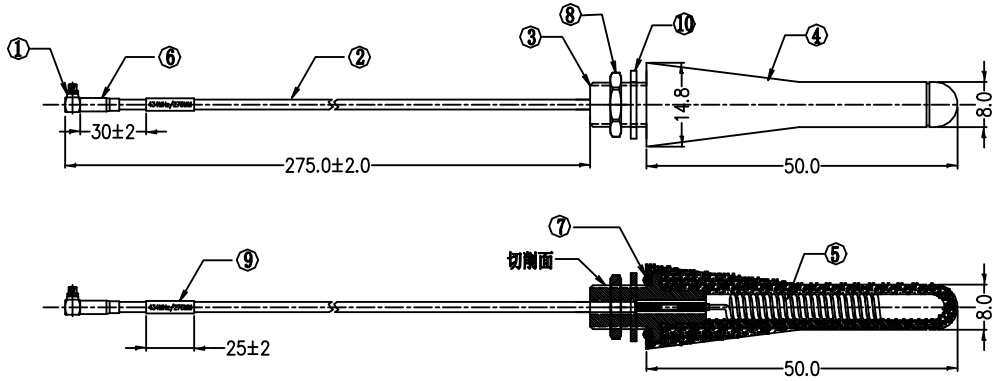
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THE COMPONENT(S), INCLUDING ANY PLATING OR COATINGS, SUPPLIED PER THIS DRAWING MUST BE COMPLIANT WITH EU DIRECTIVE 2011/65/EU (RoHS DIRECTIVE)

版本	工程变更单号	变更内容	变更人/日期
01	无	首次发行	Ellen/2022.12.07



备注:

1. 频段: 429~439MHz
2. VSWR: ≤7.0 (不带机壳)
3. 阻抗: 50 欧姆
4. 工作温度: -30° C~65° C

⑩	平型垫片	垫片 $\Phi 8.00 \times \Phi 12.00 \times 1.00$ 材质 C3604 镀镍 2.5 μ m RoHS	1PC
⑨	白色热缩套管	套管 $\Phi 3.0$ mm 一般型 白色有印字 RoHS	1PC
⑧	螺母	螺母 M3 \times 0.75-GHWHX11.00 \times 1.95 材质 C3604 镀镍 2.5 μ m RoHS	1PC
⑦	胶圈	胶圈 $\Phi 11.20 \times \Phi 8.00 \times \Phi 1.6$ mm 材质 硅胶 红色 RoHS	1PC
⑥	热缩套管	热缩套管 $\Phi 3.0$ mm 一般 黑色 RoHS	1PC
⑤	线圈	线圈 OD: $\Phi 0.5 \times \Phi 4.5$ (mm) 22圈 材质 磷青铜 不电镀 RoHS	1PC
④	护套	TPR 56D 黑色	1PC
③	金属件	材质: C3604 镀镍	1PC
②	线材	BG178 镀合被铜包铜导体 镀铜铜编织 PTFE绝缘体 外被淡棕色PEP RoHS、REACH	1PC
①	连接器	MMCX Connector R/A plug for BG178 cable gold plated RoHS	1PC

编号	品名	材料清单	用量
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第三角投影法



图框标准

绘图:

审核:

批准:

未注公差

一位小数 .I ± 0.50

两位小数 .II ± 0.30

三位小数 .III N/A

孔径 .IX N/A

角度 N/A

单位:

mm

比例: I : I



客户: 111800 销售物料号: C0448-ANG0003

客户料号: 130100J10566

品名规格: 发射器一体式天线 C0448-ANG0003

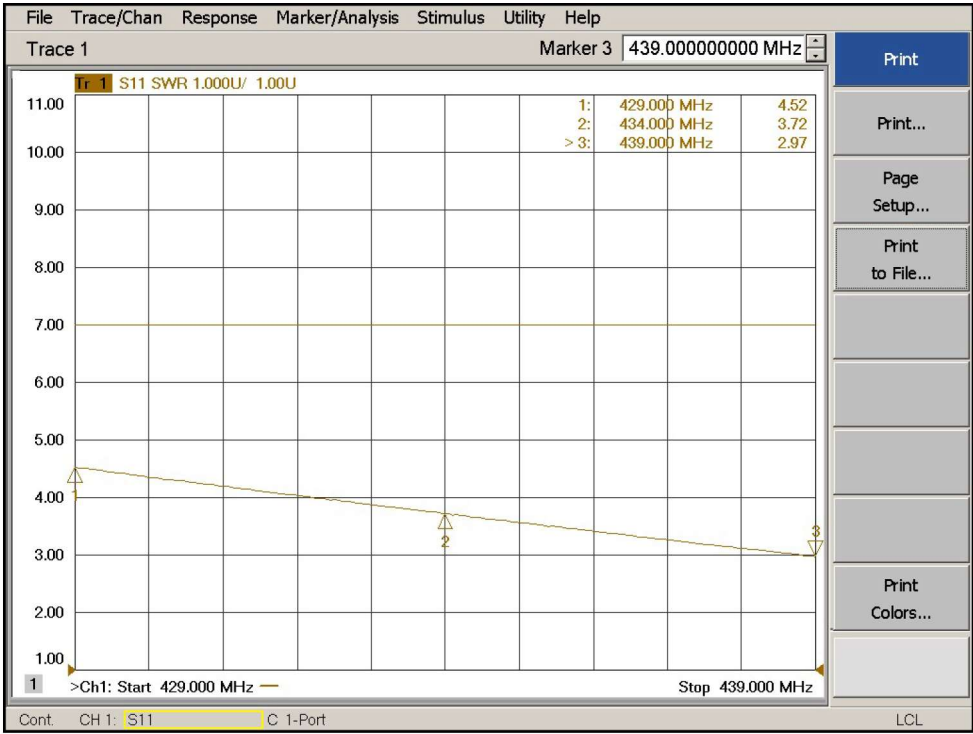
页码: 1 OF 1 客户版本: N/A 销售物料版本: 01



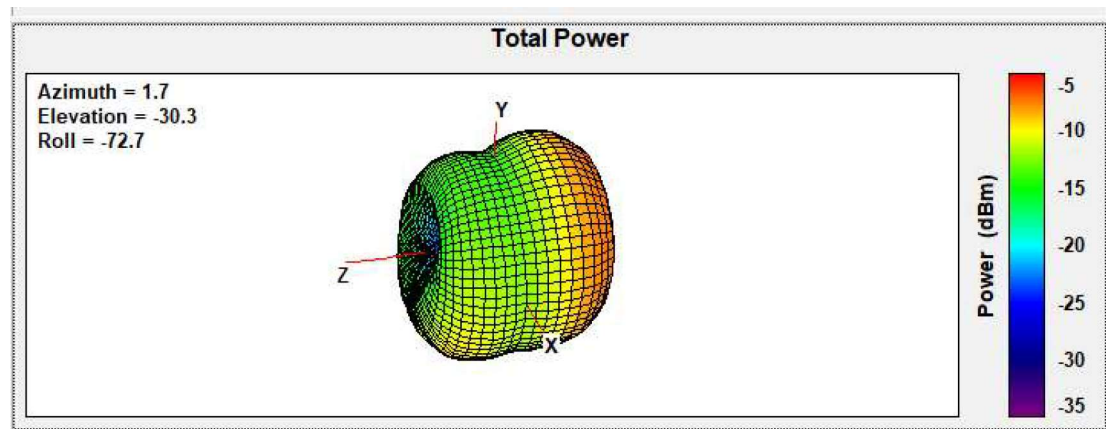
Radiation Technology, Inc.

Parameter:	
FREQUENCY (MHz)	429~439 MHz
Gain (dBi)	-6dBi
V. S. W. R	≤ 7.0
Impedance (Ω)	50 Ω
POLARIZATION	VERTICAL
ORIENTATION	OMNI
TEMPERATURE ($^{\circ}\text{C}$)	-30 $^{\circ}\text{C}$ ~ +65 $^{\circ}\text{C}$
Length (mm)	60mm
Connector	MMCX R/A PLUG FOR RG178
CABLE	RG178 COAXIAL CABLE

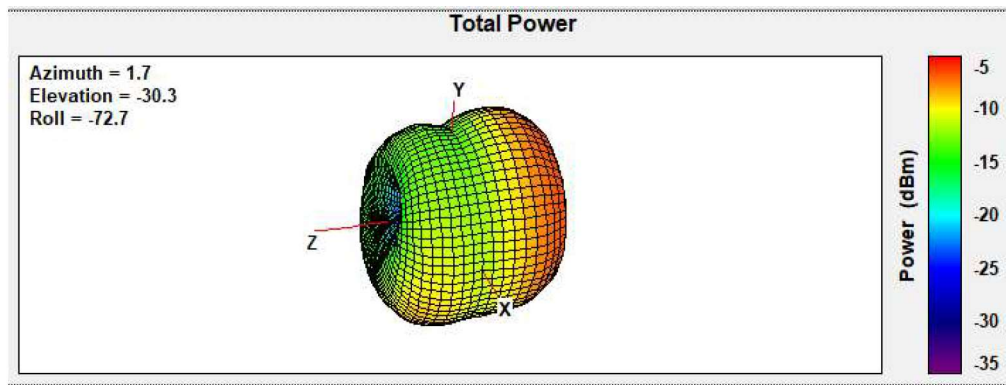
2. VSWR Test



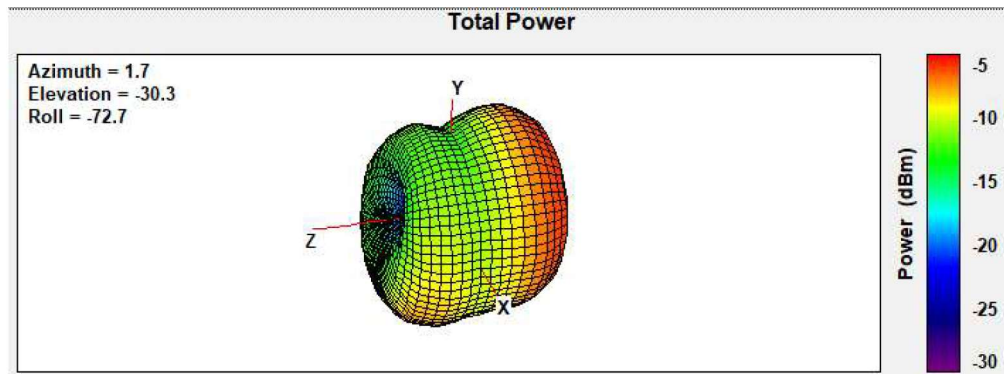
3D Pattern of Antenna For 429MHz



3D Pattern of Antenna For 434MHz



3D Pattern of Antenna For 439MHz





昆山昕芮特电子科技有限公司 RADIATION TECHNOLOGY, INC.

No. 233, Binjiang South Road, Zhangpu, Kunshan, Jiangsu, 215321, China

Tel: (86) 512-8260 6588 Fax: (86) 512-8260 6586 <http://www.rt-inc.com/>

Declaration of RoHS 3.0 Conformity

Radiation Technology, Inc. hereby confirms that the following products comply with EU Directive RoHS 3.0, of the European Parliament RoHS (Restriction of Hazardous Substances).

Content of Compliance

Lead (0,1 %)

Mercury (0,1 %)

Cadmium (0,01 %)

Hexavalent chromium (0,1 %)

Polybrominated biphenyls (PBB) (0,1 %)

Polybrominated diphenyl ethers (PBDE) (0,1 %)

Bis(2-ethylhexyl) phthalate (DEHP) (0,1 %)

Butyl benzyl phthalate (BBP) (0,1 %)

Dibutyl phthalate (DBP) (0,1 %)

Diisobutyl phthalate (DIBP) (0,1 %)

Exemption:

The application of these substances is exempted from the requirement of EU Directive RoHS 3.0 Article 4 in the following circumstances, such as:

Lead as an alloying element in steel containing up to 0.35% lead by weight, aluminum containing up to 0.4% lead by weight and as a copper alloy containing up to 4% lead by weight.

Lead in high melting temperature type solders (i.e. tin-lead solder alloys containing more than 85% lead).

Signature for and on behalf of: Radiation Technology, Inc.

Printed name: Alan Chiang

Title: General Manager

Date: 2019.03.07





Certificate of Registration

This certificate has been awarded to

RADIATION TECHNOLOGY, INC.

No.233, Binjiang South Road, Zhangpu Town, Kunshan City, Jiangsu Province, China

in recognition of the organization's Environmental Management System which complies with

ISO 14001:2015

The scope of activities covered by this certificate is defined below

Environmental Management Activities related Manufacture, Assembly & Sales of Various Connectors, Wire Products (Antennas, Earphone Cables, Electron Beams, Computer Cables, Medical Cables, High-frequency Transmission Lines and Power Lines), Microwave Communication Products (Duplexers, Isolators, Filters and Couplers) and Electronics

Certificate Number 102091/B/0001/UK/En			
Date of Issue of Certification Cycle	Issue Number	Certificate Expiry Date	Certification Cycle
25 March 2021	1	24 March 2024	1
Revision Date	Revision Number	Original Certificate Issue Date	Scheme Number
25 March 2021	0	25 March 2021	n/a

For detailed explanation for the data fields above, refer to <http://www.urs-holdings.com/logos-and-regulations>

Issued by

On behalf of the Schemes Manager





Certificate of Registration

This certificate has been awarded to

RADIATION TECHNOLOGY, INC.

No.233, Binjiang South Road, Zhangpu Town, Kunshan City, Jiangsu
Province, China

in recognition of the organization's Quality Management System which complies with

IATF 16949:2016

The scope of activities covered by this certificate is defined below

Manufacture of Antennas (Excludes Product Design under Clause 8.3)

Certificate Number:

101984/A/0001/SM/En

Date of Issue of Certification Cycle:

09 January 2019

Date of Issue:

08 January 2019

Issue No:

1

Expiry Date:

07 January 2022

IATF No:

0347932

Issued by:

On behalf of the Schemes Manager

