

诚 信 · 专 业 · 创 新

HMEMC

常州华明电子设备有限公司
HUAMING ELECTRONIC EQUIPMENT CO.,LTD



屏蔽机房、电波暗室专业研发生产商 Original Manufacturer for EMC Chamber and RF Shielding Room



样本所有照片均为我单位工程实例
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Company

Introduce 企业简介

常州华明电子设备有限公司专业从事于电磁屏蔽领域产品研发生产，产品包括微波暗室、屏蔽机房、MRI屏蔽室、屏蔽机柜、屏蔽箱、屏蔽门、MRI屏蔽门、屏蔽观察窗、蜂窝状通风波导窗、EMC/EMI电源滤波器、EMC/EMI信号滤波器、铍青铜指形簧片、屏蔽波导管、PCB结构组合滤波器、喇叭天线、信号发生器等。

我单位由一批多年从事EMC领域工作，具有丰富经验的技术骨干组成，产品广泛应用于国防军工、大专院校、产品研发生产等多个领域。产品性能参数符合国内外相关规范要求，先后通过了中国人民解放军总参测试中心、国家保密局、中国计量院、上海市计量院、兵器集团206研究所、上海电科院、江苏计量院、广东省计量院、中国赛宝(华东)实验室、中国工程物理研究院测试中心、英国NJ.Smith EMC评估工程服务测试中心、英国EMC Hire Limited、韩国KTR协会等国内多家权威机构的检测。

近年来，随着信息技术的高速发展，我单位与国内外多家大专院校及科研机构紧密合作，密切跟踪国内外电磁兼容领域最新发展动向，通过对产品的不断改进和完善，确保产品达到国内外同类产品先进水平。

我单位以质量第一客户至上为宗旨，将竭诚为客户提供各类高性能产品，与客户一同面对竞争激烈的市场，与客户共赢。

我单位在加拿大、印度、英国均设有分公司。

欢迎访问我单位网站，以获取更多照片及视频资料。

HUAMING Electronic Equipment Co.,LTD is a professional company in EMC field from China. Our products include the RF shielding room, Microwave chamber, MRI room, RF shielding door, RF shielding cabinet, MRI shielding door, RF shielding windows, honeycomb ventilation, power supply filter, signal filter, Beryllium copper finger, Wave tube, PCB combined filter system, Signal generator, Horn antenna and other fittings used in electromagnetic compatibility field. Our customers include the Ericsson, Solectron, Rohde&Schwarz, China HuaWei, UTStarcom, Paradox, Intel, Dopoda, Cal-COMP and other famous companies, We offer the competitive products in quality and price to satisfy our customer's needs.

Our company is made up of a set of backbones, who are engaged in EMC technique. Our products are widely used in many fields such as aviation, spaceflight, universities. Our products are widely used in many fields such as aviation, spaceflight, universities, technical parameters have come up to the advanced world standards in the same fields both at home and abroad. The products successively pass through the body test of Chinese Administration for the Protection of State Secrets, National Institute of Metrology P.R.China, Shanghai Institute of Measurement and Testing Technology, Guangdong Institute of Measurement and Testing Technology, China CEPREI Laboratories, United Kingdom N.J.Smith EMC Consultancy and Engineering Services, United Kingdom EMC Hire Limited Korea testing & research Institute and others.

In recent years, with the development of original technical force, our company cooperates with many specialized universities and authoritative research departments to improve our technique. The performance of our products has come up to the advanced world standards, even beyond them compared with the same international industries. We supply technical consultation with a service-ment of putting credit and customers in the first place. According to the customer's requirement, our company will provide superior technical plans for them as reference and also offer the high standard EMC Fittings with level and constant performance for their use in a long time. At the same time, we'll establish long friendly win-win cooperation with our customers. We'll serve you in high quality and effective way!

Our company has branches in Canada, India and the United Kingdom.

Welcome to visit our website to get details about our product.

荣誉资质

HONOR



▲ ISO9001
质量管理体系认证证书



▲ ISO9001
Certification of Quality Management System



▲ ISO14001
环境管理体系认证证书



▲ ISO14001
Certification of Environmental Management System



▲ ISO45001
职业健康与安全管理体系认证证书



▲ ISO45001
Certification of Health and Safety Management System



▲ 商标注册证
Trademark Registration Certificate



▲ 产品CE认证证书
CE Certification for HMEMC Product



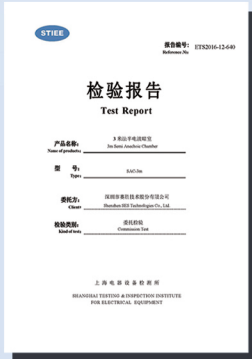
▲ 电源滤波器ESD测试报告
Test report for power filter



▲ 电波暗室检测报告
Test Report for EMC chamber



▲ 电波暗室检测报告
Test Report for EMC chamber



▲ 电波暗室检测报告
Test Report for EMC chamber



▲ 屏蔽机房测试报告
Test report for RF Shielding room



▲ 屏蔽机房测试报告
Test report for RF Shielding room



※如需上述测试报告全文资料，请和我单位质检科联系。

荣誉资质

HONOR



▲ 双层屏蔽室检测报告
Test report for RF Shielding room



▲ 屏蔽通风波导检测报告
Test report for Honeycomb vent



▲ 屏蔽机房校准证书
Test report for RF Shielding room



▲ 屏蔽机柜检测报告
Test report for RF Shielding box



▲ 屏蔽机房校准证书
Test report for RF Shielding room



▲ 英国双开门测试报告
Test report for double door



▲ 屏蔽机房测试报告
Test report for RF Shielding room



▲ 电源滤波器ESD测试报告
Test report for power filter



▲ 屏蔽机房测试报告
Test report for RF Shielding room



▲ 通风波导窗测试报告
Test report for honeycomb vent

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专利证书

保护创新和知识产权，是企业自身发展的需要。企业走向国际市场，知识产权是必须跨越的一个门槛。我单位在扩展国内外市场的同时，高度重视知识产权布局，每年都会对现有产品及处于研发过程中的产品申请专利保护。多年来在产品核心技术领域申请了多项重要专利并获得授权，是电磁兼容领域为数不多的拥有核心专利的企业。

Protecting innovation and intellectual property is the key of the company grow.As companies enter the international market,intellectual property is a threshold that must be crossed. While expanding the domestic and international markets,our company attaches great importance to the layout of intellectual property rights,and applies patent protection to existing products and products in the process of research and development every year. Over the years,we applied for a number of important patents in the core technology field and has been authorized.It is one of the few companies with core patents in the field of electromagnetic compatibility.The following are the patent certificates that our company has obtained,and there are more than 10 patents pending evaluation.



我单位通过了下述公司EMC电磁屏蔽产品合格供应商认证 (截止2018年9月)



华为技术有限公司



夏弗纳电磁兼容(上海)有限公司



思科电子(中国)有限公司



捷普科技(上海)有限公司



罗德施瓦茨有限公司



富士康科技集团



伟创力电子科技有限公司



中船重工集团



西南大学



三星半导体(中国)研究开发有限公司



联芯科技有限公司



上海电器科学研究所



通用电气(上海)有限公司



霍尼韦尔(中国)有限公司



高通信息科技(上海)有限公司



Broadcom 新加坡有限公司

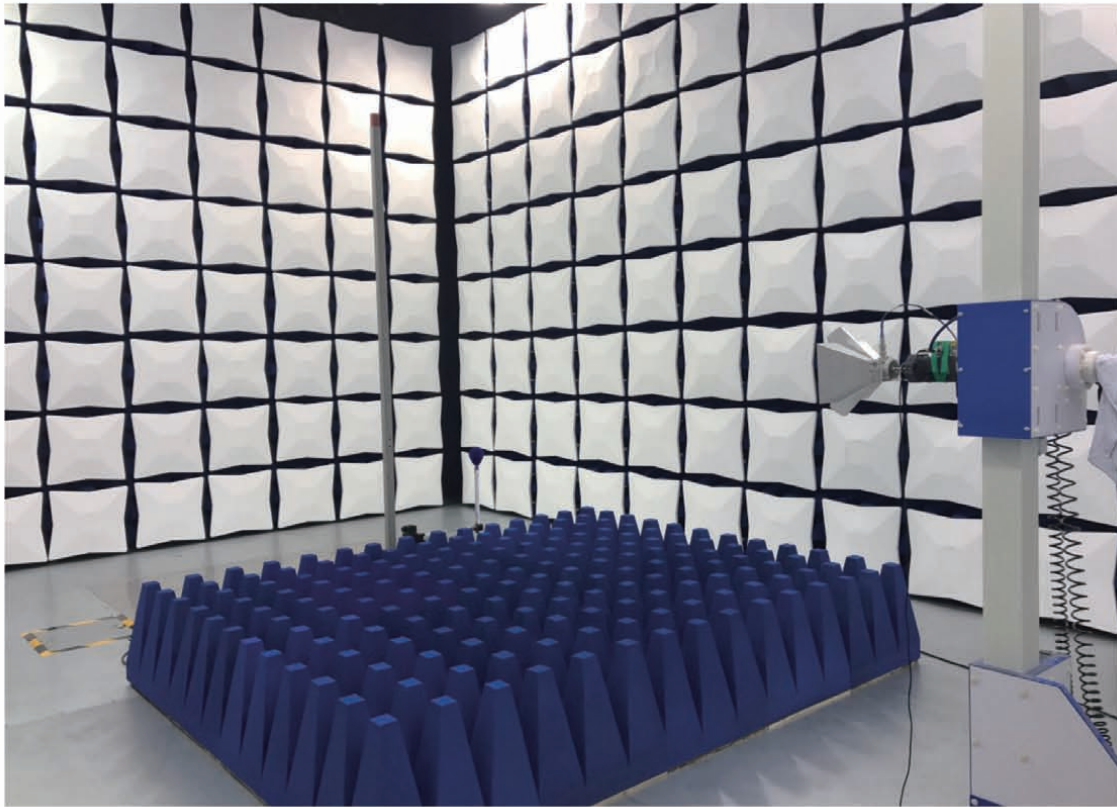


中国工程物理研究院

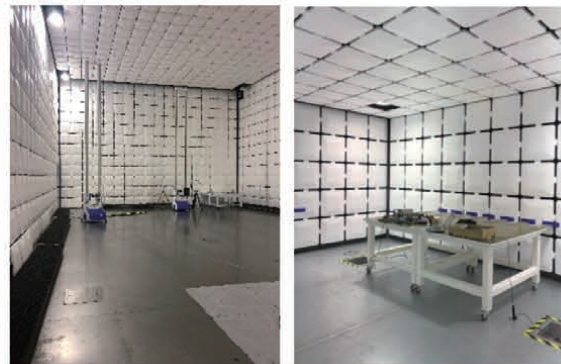


北京大学

电波暗室 EMC Chamber



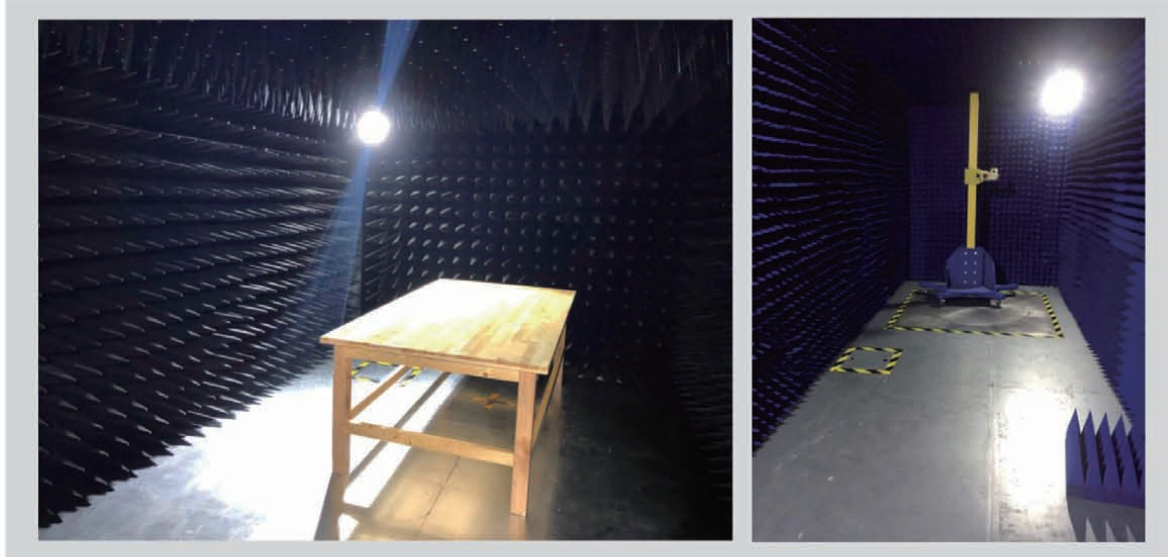
EMC暗室是一个内置电磁波吸收材料的屏蔽六面体。它与微波暗室的不同之处在于EMC暗室使用导电地面，地面不覆盖吸收材料。EMC暗室模拟理想的开阔场，具有无限大的导电接地平面。在EMC暗室中，由于地面不覆盖吸收材料，因此将产生反射路径，使得由接收天线接收的信号将是直接路径和反射路径信号的总和。它是国内外受欢迎且理想的EMC测试环境。暗室可以模拟开放空间，用于开阔场的标准测量测试。



The Semi-anechoic chamber is also known as the EMC Chamber. The Semi-anechoic chamber is similar as the full anechoic chamber. It is also a shielded enclosure structure with microwave absorb material inside. The difference is that the semi-anechoic chamber uses a conductive floor and does not cover the absorbing material. The Semi-anechoic chamber simulates as an ideal open field situation where the field has an infinitely large conductive ground plane. In a Semi-anechoic chamber, since the ground does not cover the absorbing material, a reflection path will be generated such that the signal received by the receiving antenna will be the sum of the direct path and the reflected path signal. It is a popular and ideal EMC test site at lab. This chamber is a substitute for the open space.

电波暗室 EMC Chamber

HM-EMC-1/3/5/10



标准暗室性能参数

- 归一化场地衰减 (NSA) : $\pm 4\text{dB}$
- 场强均匀性 (FU) : 符合IEC61000-4-3标准, $0\sim 6\text{dB}$ (26MHz~18GHz)。
- 场地电压驻波比 (Site-VSWR) : 符合CISPR16-1-4: 2008标准规定, 优于6.0dB。
- 背景噪声频率范围: 30MHz~18GHz 在无EUT的情况下, 测试电平应比CISPR22ClassB所规定B级的限值的电平至少低10dB (峰值)。
- 屏蔽效能

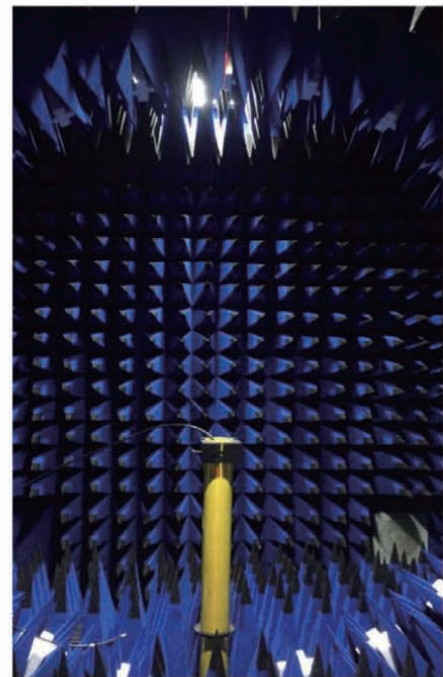
| | | |
|----------------------|-------------|--------------------|
| 磁场 Magnetic Field | 10kHz | $\geq 65\text{dB}$ |
| | 100kHz | $\geq 90\text{dB}$ |
| 电场 Electric Field | 100kHz~1MHz | 100dB |
| 平面波 Plane wave | 1MHz~1GHz | 100~110dB |
| 微波 Microwave | 1~10GHz | 110~100dB |
| | 10~40GHz | 100dB |

● 常规尺寸

| | |
|--------|-------------------------|
| 1m 法暗室 | 7m(L) x 4m(W) x 3m(H) |
| 3m 法暗室 | 9m(L) x 6m(W) x 6m(H) |
| 5m 法暗室 | 12m(L) x 8m(W) x 7m(H) |
| 10m法暗室 | 21m(L) x 14m(W) x 9m(H) |

*以上为常规尺寸, 可根据用户要求定制

*All above is the common size, it's available to modify as customer's requirement.



屏蔽机房 RF Shielding Room



● 概述 Summary

电磁屏蔽机房主要用于隔离电磁波信号传导。其被广泛用于军事安全要害部门的通信保密，医疗用大功率放射性设备的安全防护，高精度电子设备检修现场的抗电磁干扰以及其他需要进行电磁波防护、电磁信号屏蔽的场所。我单位生产的HM-SE系列电磁屏蔽机房具有高精度、高抗干扰性，高性价比等优点，已被国内外用户广泛选用。用户遍及国内20多个省市自治区及欧洲北美东南亚多个国家（参见第34-35页用户列表）。为政府机关，军队院校，医院厂矿及国内外知名企业提供了优质的产品和服务。2001年，我单位屏蔽机房类产品通过了国外多家客户考察，开始批量出口欧洲及北美地区。经过用户使用测试反馈，产品质量达到了国外同类产品的先进水平。

RF shielding room is used in the special filed to shield the signal and avoid the electromagnetic wave shocking. The HM-SE series shielding room is chosen by many customers all around the world. We are willing to design and produce it according to our customer's requirement. The advantage is good quality, fast delivery with the reasonable price.

● 常规尺寸 Common Size (单位：米/Unit: Meter)

长(Length)x宽(Width)x高(Height)=2x2x2.45

长(Length)x宽(Width)x高(Height)=3x3x2.45

长(Length)x宽(Width)x高(Height)=4x4x2.45

*以上尺寸为常规标准尺寸，可根据用户需求定制。

*All above is the common size, it's available to modify as customer's requirement

● 屏蔽性能 Shielding Performance

| 型号 Model | 磁 场 Magnetic Field | | | 平面波 Plane wave | 微 波 Microwave | | | |
|-------------|-----------------------|--------|--------|-------------------|------------------|-------|-------|-------|
| | 14KHz | 100KHz | 200KHz | 50-1000MHz | 1-10GHz | 18GHz | 26GHz | 40GHz |
| HM-SE-A | 50dB | 60dB | 75dB | 80dB | 80dB | — | — | — |
| HM-SE-B | 63dB | 80dB | 90dB | 90dB | 90dB | — | — | — |
| HM-SE-C | 75dB | 90dB | 100dB | 100dB | 100dB | 80dB | 80dB | 80dB |
| HM-SE-D | 100dB | 100dB | 120dB | 120dB | 120dB | 100dB | 100dB | 100dB |
| HM-SE-S | 50MHz-1GHz≥80dB | | | | | | | |

*以上为常规性能要求，可根据用户需求设计针对不同频段及衰减要求的技术方案。

*All above is the common technical requirement, it's available to design a special project as customer's requirement

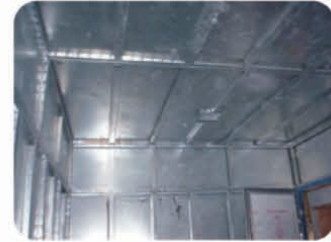


※屏蔽机房实物照片链接：<http://www.hmemc.com/en/lookcp.php?cpid=30>=屏蔽机房

金属板可拆卸式电磁屏蔽机房 Module RF Shielding Room

可拆卸式机房主要适用于日后可能需要对机房进行搬迁处理的场合。其特点是安装速度较快，场地适应性强，具有二次拆装使用的可能。

Its characteristic is fast installation speed, adapt to all kinds of field and can be assembled for second time.



*左侧为可拆卸式机房装修完成后照片，右侧为机房安装过程中照片

金属板焊接式电磁屏蔽机房 Welding RF Shielding Room

焊接式机房主要特点是适用于大型机房施工需要，屏蔽性能好。但该型机房安装结束后无法进行搬迁。

The advantage is the best RF shielding performance, but it can't be removed after installation .



※屏蔽机房实物照片链接：<http://www.hmemc.com/en/lookcp.php?cpid=30>=屏蔽机房

屏蔽门 RF Shielding Door

HM-SD系列屏蔽门采用3毫米厚度冷轧优质钢板加工生产而成，可以根据用户要求设计生产手动开启、电动开启、气动开启、滑轨平移、双门对开等多种开启方式的屏蔽门。根据不同的屏蔽效能要求，可以提供单刀双层簧片，双刀三层簧片，双刀四层簧片等多种结构的高性能屏蔽门。HM-SD系列屏蔽门通过了中国计量院、上海计量院、广东计量院、国家保密局、中国人民解放军总参测试中心、英国 EMC Hire Limited、英国N.J.SMITH等多家国内外权威测试机构的检测。HM-SD系列屏蔽门性能参数完全符合GB/T-12190-2006, GJB5792-2006, IEEE Std 299-1997, MIL-STD-285:1956等测试规范要求。

HM-SD series RF shielding door is made of 3mm thick steel materials. We can offer the manual operate door, auto operate door, double door, track operate door as customer's requirement. For the RF shielding performance, we offer one knife two layer finger model, one knife three layer finger model, two knives four layer finger model. It's available to design and produce the door according to our customer's special requirement. HM-SD series RF shielding door complete fit GB/T-12190-2006, GJB5792-2006, IEEE Std 299-1997, MIL-STD-285:1956 rules.

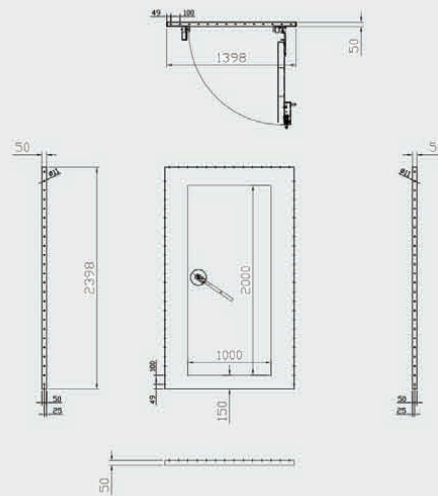
● 单开手动屏蔽门

Manual operate RF shielding door

● 标准尺寸 Standard Size

HM-SD-M

| 型号 Type | 门框外形尺寸 Door Frame Size | 门洞尺寸 Door Entrance Size |
|------------|---------------------------|----------------------------|
| HM-SD-M-A | 2400mm x 1400mm | 2000mm x 1000mm |
| HM-SD-M-B | 2400mm x 1600mm | 2000mm x 1200mm |
| HM-SD-M-C | 2400mm x 1900mm | 2000mm x 1500mm |



※屏蔽门实物照片链接: <http://www.hmemc.com/en/product.php?cplm=27=-屏蔽门>

屏蔽门 RF Shielding Door

● 单开气动屏蔽门

Pneumatic door

门框外形尺寸

Door Frame Size

2400mm x 1400mm

门洞尺寸

Door Entrance Size

2000mm x 1000mm



HM-SD-P

● 单开电动屏蔽门

Auto operate door

门框外形尺寸

Door Frame Size

2400mm x 1400mm

门洞尺寸

Door Entrance Size

2000mm x 1000mm

可选按钮开关、IC卡
读卡开门

Button Control Open

IC Card Reader Control Open



HM-SD-E

● 双开手动屏蔽门

Double RF shielding door

门框外形尺寸

Door Frame Size

2800mm x 2800mm

门洞尺寸

Door Entrance Size

2500mm x 2500mm



HM-SD-D

*以上为常规屏蔽门尺寸，可根据用户要求定制各种尺寸屏蔽门

*All above is the common size RF shielding door it's available to design and produce the special size door as customer's requirement



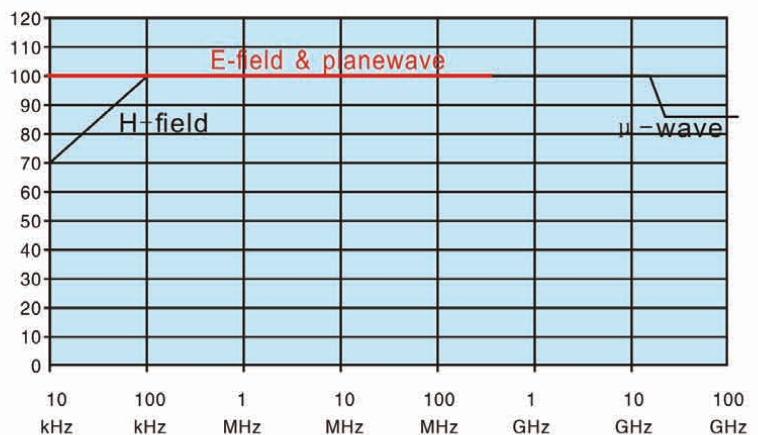
※屏蔽门实物照片链接：<http://www.hmemc.com/en/product.php?cplm=27>==屏蔽门

电动平移门 Sliding Shielding Door

HM-SSD系列全自动平移门是我单位生产的新型自动屏蔽门，具有全自动操作功能和屏蔽性能出色的优点，专门设计用于电波暗室和屏蔽室。该系列屏蔽门开关装置由两个减速电机驱动，可按要求设置运行速度，且有多种尺寸可供选择，以适应各种特定的暗室。HM-SSD系列具有单独的框架支撑，可配合各种暗室和屏蔽室设计，标准设计中配备升降平台。截至2025年，我单位已为国内外客户设计生产超过300套HM-SSD系列平移门，经过用户测试反馈，产品质量已达到国际同类产品先进水平。



HM-SSD series sliding shielding doors provide fully automatic operation and excellent RF-shielding. It is specially designed for anechoic chamber and shielded room. A considerable advantage of sliding doors/gates is the fact that pyramid absorbers may be installed on the doors leaves directly. For automatic operation, electric /pneumatic controls with a safety circuit will be delivered. For the bridging of the doorstep, several automated ramp systems are available. If the chamber can be placed into a pit, it is also possible to choose a solution without doorstep. We are willing to design and produce the special size and technical parameter according our customer's requirement.



| Door type | OPENING SIZE |
|-----------|---------------|
| HM-SSD-A | 2000MM*2000MM |
| HM-SSD-B | 2000MM*2500MM |
| HM-SSD-C | 2500MM*2500MM |
| HM-SSD-D | 3000MM*3000MM |
| HM-SSD-E | 4000MM*4000MM |
| HM-SSD-F | 5000MM*5000MM |



电动平移门 Sliding Shielding Door

● 特点

独特的无振动打开和关闭过程，由两个电机驱动
运行速度可编程
便于维护
独立式支撑结构
颜色和尺寸可按客户要求定制

● Features

Unique vibration-free opening and closing process powered by twin servo motors
Fully programmable,
Front panel access for easy maintenance
Freestanding support structure
Color and size customized

● 控制方式

操作模式：操作面板位于支撑结构上。使用双按钮方式激活。
打开\关闭过程：打开和关闭过程由2个减速电机驱动。
锁定系统：每个垂直侧有多个锁定位置，机械锁系统由气缸驱动。
工作指示灯：装置处于全闭位置时显示“正在测试”
控制面板位置：左或右可根据客户要求安排

● Control Specifications

Operation mode: Operation panel located on the support structure. Activated using twin push button method. Open, Close Process: Opening and closing process is driven by 2 synchronized stepping motors. Latching System: several lock positions on each vertical side. Mechanical lock system driven by air cylinder. Interface: Limit switch in fully closed position signals "Test in Progress" Control Panel Position: Left or right

● 电气规格

电源：240/120 V 10 Amp
供气：85 PSI (6 bar)

● Electrical Specifications

Power supply: 240/120 V 10 Amp
Air Supply: 85 PSI (6 bar)

● 安全规范

操作面板上有 紧急关闭开关
如果阻塞，门扇上的触摸传感器会反转操作
门在运动时闪烁灯闪烁
门在运动时，信号喇叭激活

● Safety Specifications

Emergency shutdown switch on operation panel
Touch sensor on door blade reverses the operation if obstructed
Flashing light activates when door is in motion
Signal horn activates when door is in motion



核磁共振医用屏蔽门 MRI Shielding Door

MRI 核磁共振屏蔽门采用非铁磁性材料设计加工而成。主体采用经过特殊处理的木材，紫铜板，定制特殊规格铜质型材，不锈钢螺丝，铍青铜指形簧片等材料加工而成。

The MRI door main body made by pre-process wooden panel, assemble by copper panel, purpose shape brass hardware, stainless steel screw, beryllium copper finger strips and some other special fittings. Most of the fittings manufacture by our company by special DIE system.

We are willing to design and manufacture the MRI door according to customer's requirement. Your advice is always being respected.

优点:

- 1、门框尺寸设计符合医用推车进出要求
- 2、不含铁磁性材料
- 3、门槛方向可以在安装过程调整
- 4、备件更换维修方便快捷
- 5、性能测试可靠
- 6、优异的性能价格比

HM MRI Door Advantages:

*Standard door entrance size accord as the medical purpose cart pass

- *Non-Magnetic material
- *Door threshold direction could modify during assemble
- *Easy for repair or replace spare parts
- *Full test of MRI door performance
- *High performance with reasonable price

物理尺寸:

门洞尺寸: 1200X2000mm
 门框尺寸: 1320X2200mm

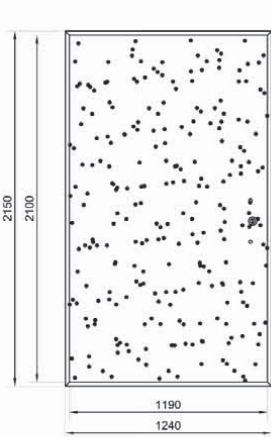
Physics Parameter

- *Door entrance size: 1200X2000mm
- *Door Frame size: 1320X2200mm

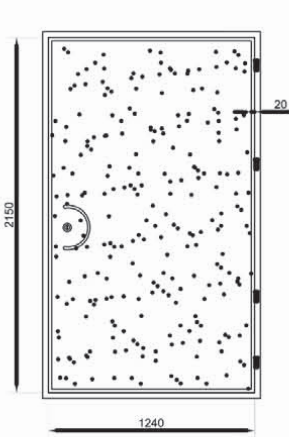


Attenuation Parameter

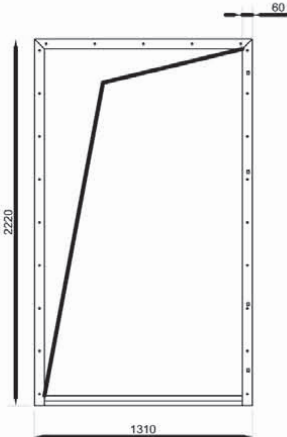
| Frequency | Attenuation |
|-----------|-------------|
| 10MHz | 100dB |
| 20MHz | 100dB |
| 35MHz | 100dB |
| 50MHz | 100dB |
| 80MHz | 100dB |
| 100MHz | 100dB |
| 200MHz | 100dB |



Reverse Side



Front Side



Door Frame

核磁共振医用屏蔽室 MRI Shielding Room

● 概述 Summary

HM-MRI系列核磁共振屏蔽室主要用于为磁共振成像（MRI）设备消除外部干扰。因为医院中使用了各种各样的电子设备，所以射频环境通常相当复杂。华明MRI屏蔽室为MRI扫描提供了高屏蔽衰减和安静的环境。经过用户使用测试反馈，产品质量达到了国外同类产品的先进水平。



Magnetic Resonance Imaging (MRI) equipment is the primary facility in hospitals to obtain images of living human tissue. The proper functioning of such equipment is critically dependent upon its capabilities to measure and register minute magnetic resonances from water molecules in tissues such as the human brain. It is obvious that such sensitive measurements can only be accomplished if practically all outside interference is eliminated. The RF environment in hospitals is usually fairly "polluted" due to the fact that a wide range of electronic equipment is used in close proximity to each other. HUAMING MRI rooms provide a high shielding attenuation to the environment creating a well protected and quiet environment to execute MRI scans.

● 常规尺寸 Common Size (单位：米/Unit: Meter)

· 长 (Length) x 宽 (Width) x 高 (Height) = 8.00 x 5.00 x 4.00

· 长 (Length) x 宽 (Width) x 高 (Height) = 9.00 x 5.00 x 4.00

* 以上尺寸为常规标准尺寸，可根据用户需求定制。

* All above is the common size, it's available to modify as customer's requirement

● Attenuation Parameter

| Frequency | Attenuation |
|-----------|-------------|
| 10MHz | 100dB |
| 20MHz | 100dB |
| 35MHz | 100dB |
| 50MHz | 100dB |
| 80MHz | 100dB |
| 100MHz | 100dB |
| 200MHz | 100dB |



核磁共振医用屏蔽室 MRI Shielding Room

优点:

- 1、单开铰链门、对开铰链门可供选择
- 2、多种观察窗可供选择
- 3、专业于MRI室的室内设计和生产
- 4、经验丰富的施工团队
- 5、专业的验收测试
- 6、完善服务和后期维护

Advantages

- *Wide choice of swing doors (single leaf or double leaf)
- *Selection of windows for patient observation
- *In house design and production of entire MRI room
- * Experienced engineering team
- *Acceptance testing for isolation and shielding effectiveness
- * Service and maintenance contracting



特征:

- 1、灵活的MRI室设计
- 2、使用0.2mm厚度铜箔加工成模块板
- 3、独立支撑结构的建设
- 4、整体交钥匙工程设计和安装
- 5、屏蔽门入口门槛较低

Features

- *Flexible design of MRI room
- *Use of 0.2mm modular folded copper panels
- *Self supporting construction
- *Turnkey design and installation
- *Threshold lower entrance



屏蔽机柜 RF Shielding Cabinet

HM-ST系列屏蔽机柜具有单价低，便于移动携带，对安装场地要求低，交货期快等特点，不需要进行现场安装调试，用户收到机柜后可立即投入使用。

我单位可根据用户要求，设计制造各种规格尺寸的屏蔽机柜，可以根据用户要求对机柜提供电源、照明、通风、数据接口、光纤接口等多种配置。产品目前已经被包括华为技术有限公司、鼎桥、伟创力、高通、台湾行政院同步辐射研究中心等多家单位使用。

HM-ST series RF shielding cabinet is low cost, light weight, removabe, time delivery and no-installation requirement. We are willing to design and produce the special size and technical parameter according our customer's requirement. The RF shielding cabinet can offer optical cable route, power supply route, signal line route and other special routes. It's widely used in telecommunication fields and instrument checking check and repair.



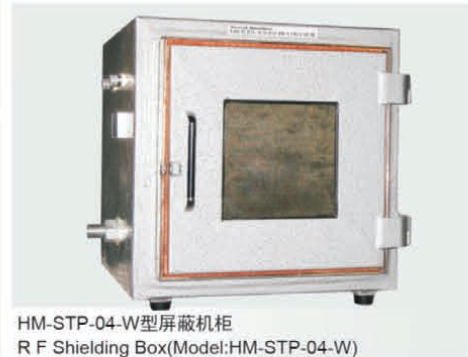
HM-ST-20型屏蔽暗箱
R F Shielding Cabinet (Model:HM-ST-20)



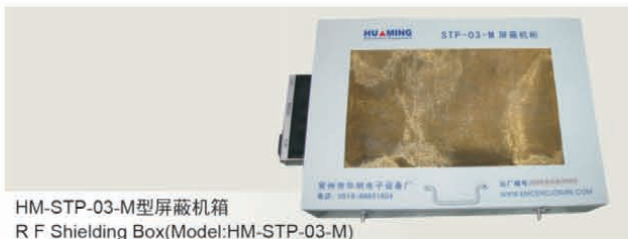
HM-ST-16-W型屏蔽机柜
R F Shielding Cabinet (Model:HM-ST-16-W)



HM-STP-08型屏蔽机箱
R F Shielding Box (Model:HM-STP-08)



HM-STP-04-W型屏蔽机箱
R F Shielding Box (Model:HM-STP-04-W)



HM-STP-03-M型屏蔽机箱
R F Shielding Box (Model:HM-STP-03-M)

● 外形尺寸 Size

| | |
|-----------|-----------------|
| HM-STP-03 | 380x280x80mm |
| HM-STP-04 | 400x400x400mm |
| HM-ST-06 | 600x600x700mm |
| HM-ST-16 | 1000x700x1600mm |

*以上为常规尺寸，可根据用户要求定制
*All above is the common size, it's available to modify as customer's requirement.

● 屏蔽性能 RF Shielding Performance

| | |
|--|-------------------|
| 普通型: Common model | 50MHz~1GHz>60dB |
| 带观察窗型: Common model with RF shielding windows | 50MHz~1GHz>40dB |
| 高性能型: High performance Model | 50MHz~2.4GHz>60dB |

*以上为常规性能要求，可根据用户要求定制各种工作频段及衰减要求的机柜
*All above is the common performance, it's available to design and produce as customer's requiremen

※屏蔽机柜实物照片链接: <http://www.hmemc.com/en/lookcp.php?cpid=29>=屏蔽机柜



屏蔽机柜 RF Shielding Cabinet

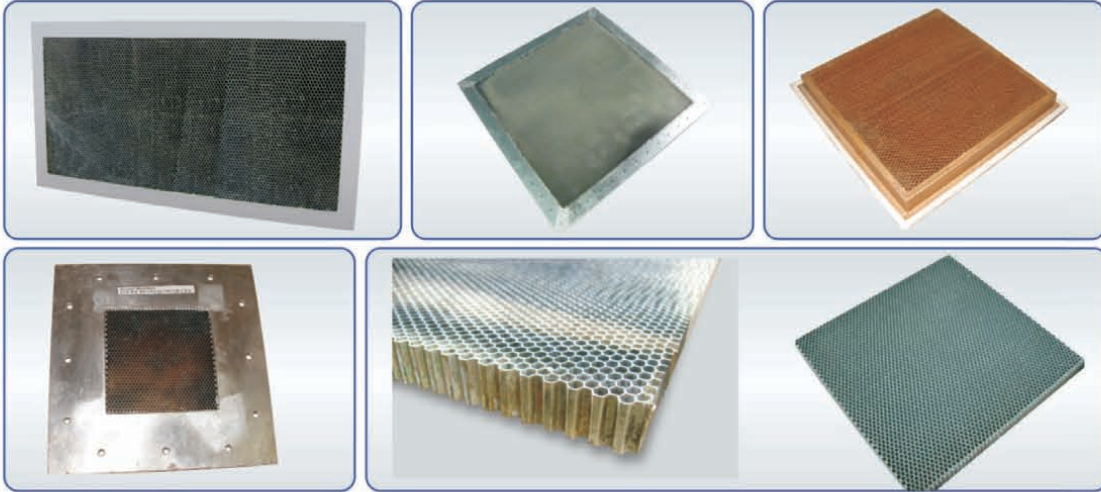


※屏蔽机柜实物照片链接: <http://www.hmemc.com/en/lookcp.php?cpid=29>=屏蔽机柜

蜂窝状通风截止波导窗 Honeycomb Vent/Wave Guide

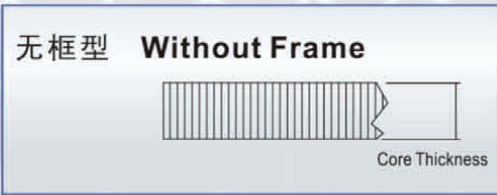
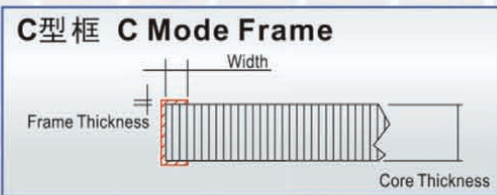
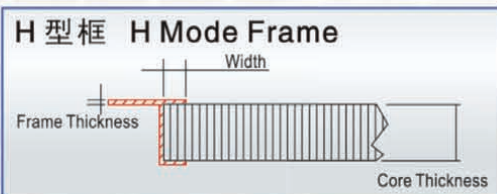
HM-HV系列蜂窝状通风波导窗广泛应用于电磁屏蔽领域，可以为屏蔽机房屏蔽机柜内提供空气流通并保持良好的屏蔽性能。根据不同的孔径和厚度，可以提供不同的屏蔽效能，我单位拥有波导窗设计发明专利。

HM-HV series honeycomb vent is widely used in EMC shielding field, for the air refresh system of the RF shielding room, microwave chamber or RF shielding box. The available materials include tin steel, brass and copper. The choice of the honeycomb vent with the best design is based on the RF shielding performance and air flow, We have the patent of the honeycomb vent.



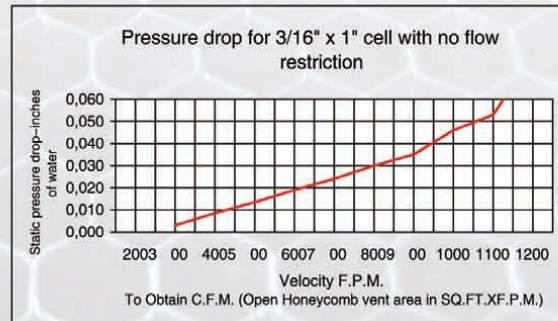
| 可选孔径 Available Cell diameter | | | | |
|--|-------|-----|-------|-----|
| 2.4mm | 3.2mm | 4mm | 4.8mm | 8mm |
| **以上为常规可选孔径，如需特殊规格孔径，用户需承担开制新规格孔径模具费用 **All above is the common cell diameter, for speical size cell diameter no in list, customer would pay for the cost for the DIE of new size cell diameter | | | | |

| 可选厚度 Available Thicknes | | |
|--|------|------|
| 12.5mm | 25mm | 50mm |
| **以上为常规可选厚度规格，如需特殊规格厚度，可按照用户要求定制 **All above is the common thickness size, it's available to modify the thickness size as customer's requirement. | | |



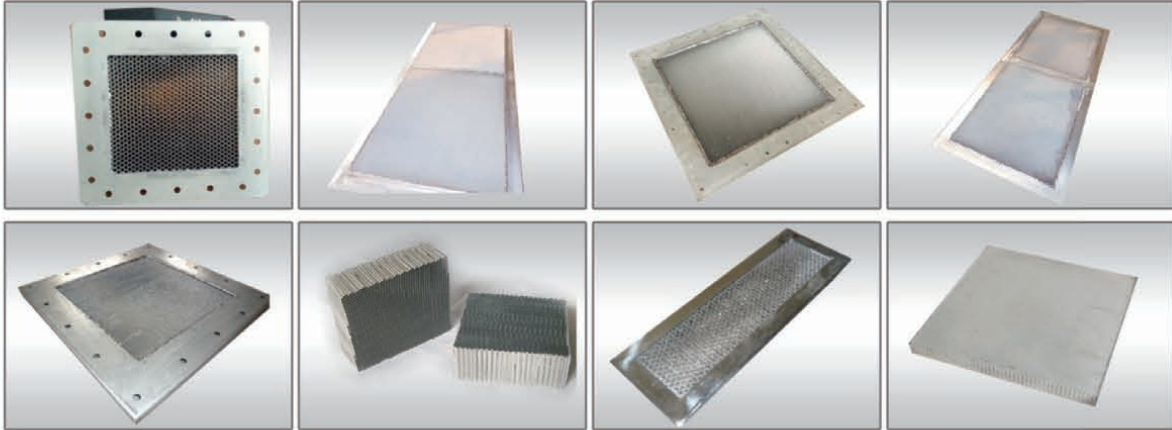
| 可选材质 Available material | | |
|-------------------------|---------|--------------------|
| 马口铁Steel | 黄铜Brass | 不锈钢Stainless Steel |

| 可选尺寸 Available Size |
|---|
| **最大单块尺寸为600mmX900mm，如需更大尺寸，则需由两块或多块焊接拼装而成。12.5mm厚度规格最大单块尺寸为600mmX600mm；3.2mm孔径规格最大单块尺寸为600mmX600mm **The largest vent size is 600mmX900mm, if you need bigger size than it, it must be jointing by two or more pieces vent. For 12.5mm thickness model, the largest size is 600mmX600mm, for 3.2mm cell diameter model, the largest size is 600mmX600mm |

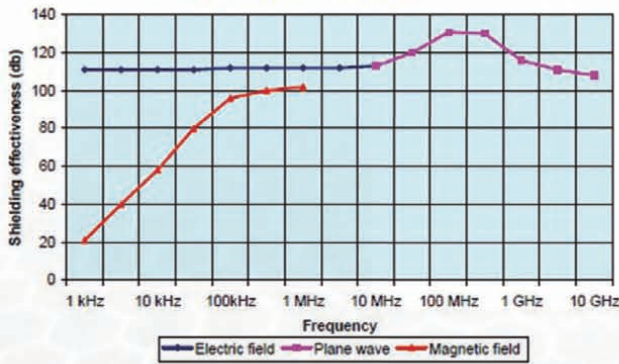


※波导窗实物照片链接：<http://www.hmemc.com/en/lookcp.php?cpid=31>=波导窗

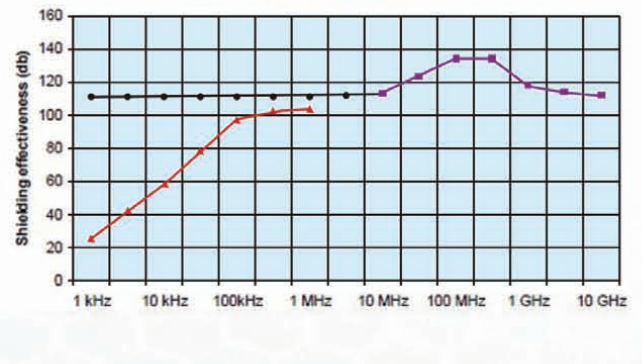
蜂窝状通风截止波导窗 Honeycomb Vent/Wave Guide



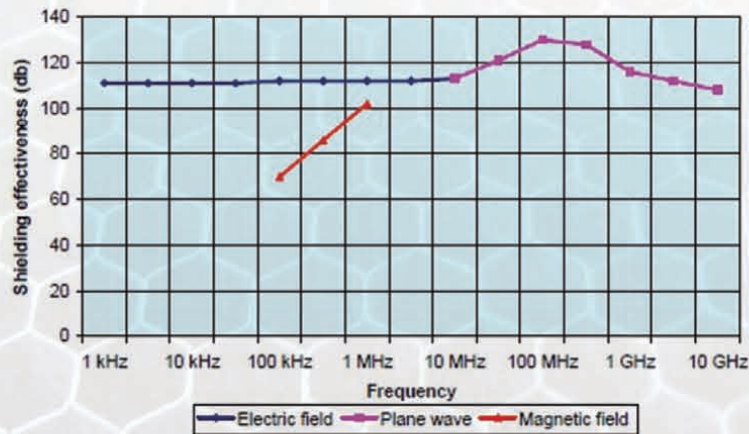
Shielding effectiveness STEEL Waveguide vent
(3 / 16" DIA Honeycomb)



Shielding effectiveness STEEL Waveguide vent
(1 / 8" DIA Honeycomb)

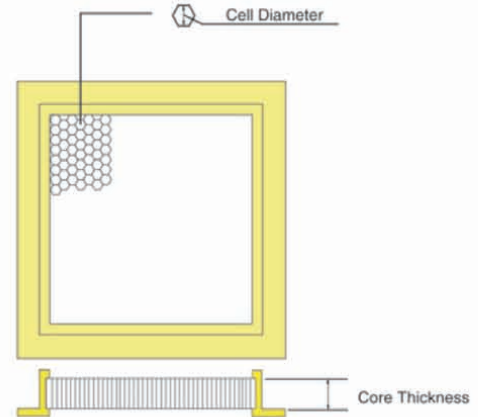
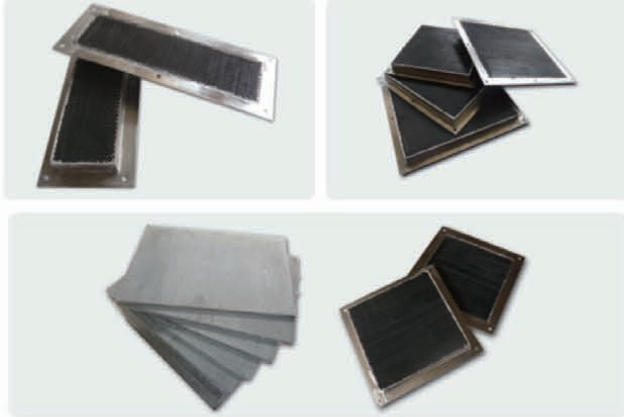


Shielding effectiveness BRASS Waveguide vent
(3 / 16" DIA Honeycomb)



※波导窗实物照片链接: <http://www.hmemc.com/en/lookcp.php?cpid=31>=波导窗

蜂窝状通风截止波导窗 Honeycomb Vent/Wave Guide



性能参数 Technical Parameter

蜂窝孔径 Cell Diameter: 4.00mm

蜂窝厚度 Core Thickness: 25.00mm

| 频段 Frequency Band | 衰减 Attenuation |
|-------------------|----------------|
| 100KHz | >100dB |
| 1MHz - 10MHz | >100dB |
| 10MHz - 30MHz | >100dB |
| 30MHz - 1GHz | >100dB |
| 1GHz - 10GHz | >100dB |
| 10GHz - 18GHz | >100dB |

性能参数 Technical Parameter

蜂窝孔径 Cell Diameter: 4.80mm

蜂窝厚度 Core Thickness: 25.00mm

| 频段 Frequency Band | 衰减 Attenuation |
|-------------------|----------------|
| 100KHz | >100dB |
| 1MHz - 10MHz | >100dB |
| 10MHz - 30MHz | >100dB |
| 30MHz - 1GHz | >100dB |
| 1GHz - 10GHz | >100dB |

铝制蜂窝通风窗 Honeycomb Serials Aluminium



HM-HV-ALU系列铝蜂窝通风板主要用于电脑机箱，射频仪器机箱等低电磁干扰环境EMC防护，根据孔径，厚度及表面处理的不同，在2.4G频段可以提供15~30dB的衰减防护效能，具有成本低，重量轻等优点。

我单位可以生产最大尺寸1200×2400mm，厚度100mm以内任意规格铝蜂窝板。蜂窝常规孔径为3.2/4/6/8/12mm。

HM-HV-ALU serials aluminium honeycomb vent is widely used for computer cabinet, Radio frequency instrument cabinet and other lower level electromagnetic noise situation, it could offer 15-30dB attenuation at 2.4G. (The performance relate with the thickness, cell diameter and surface processing). The advantage is lower cost, light weight and time delivery.

We could manufacture the aluminium honeycomb vent under 1200X2400mm size, the available thickness from 5mm to 100mm, the normal cell diameter include 3.2/4/6/8/12mm.



※波导窗实物照片链接: <http://www.hmemc.com/en/lookcp.php?cpid=31>=波导窗

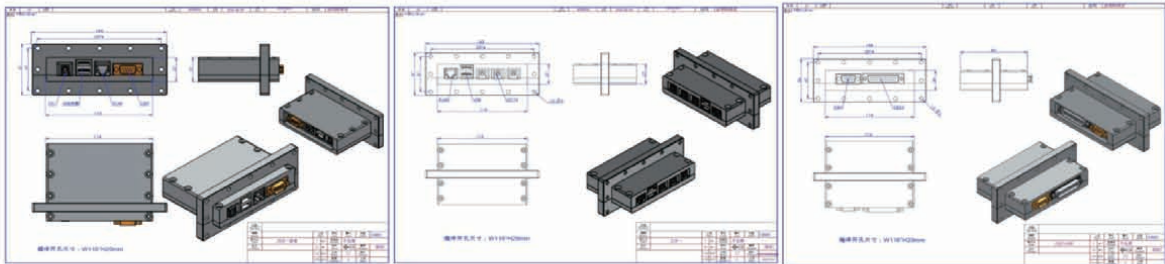
PCB结构组合滤波器 PCB Combined Filter System



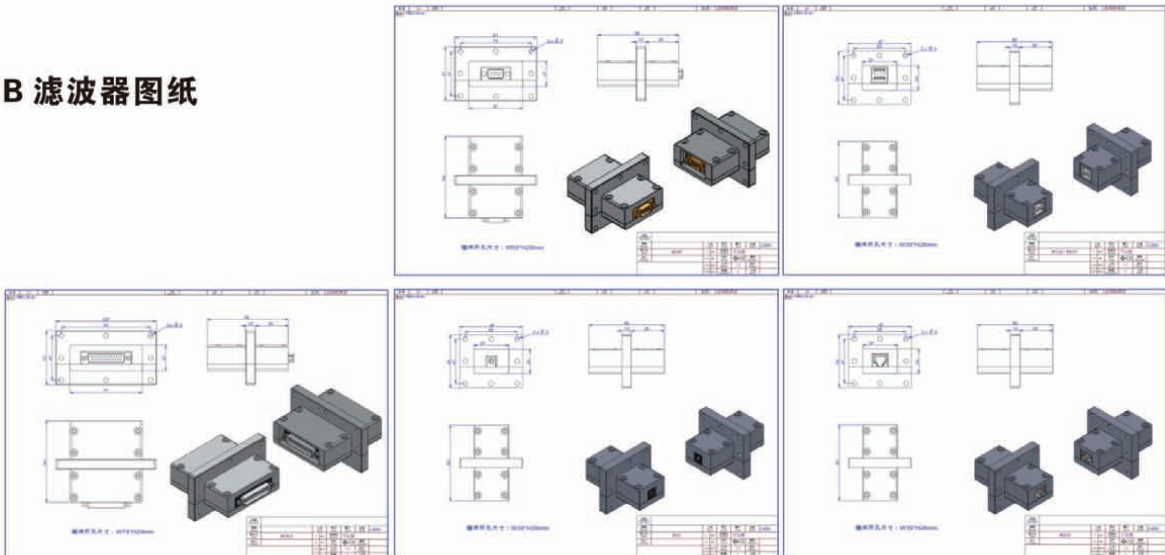
HM-CSF系列PCB结构滤波器可按客户要求,同时装配DB25,DB9,USB, RJ45, DC多种接口,为客户的测试设备连接提供极大的便利,具有占用空间小,高隔离度,模组自由组合,结构紧凑,集成度高,安装简便,性价比高等优点,广泛用于屏蔽柜等设备中。

HM-CSF Serials filter can be Combined with DB25, DB9, double USB, RJ45, DC interface according to customer's requirements. It provides great convenience for customers' test equipment connection and compact in structure, with small size and high isolation. The advantage is compact in structure, great integration, easy to install, and cost-effective. It is widely used in shielding cabinets and other equipment.

A 滤波器图纸



B 滤波器图纸



EMC/EMI 滤波器 EMC/EMI Filter

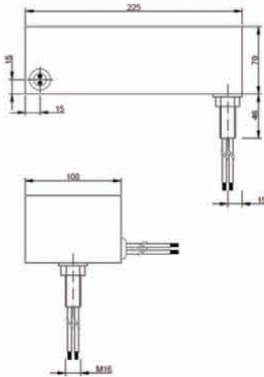
HM-Signal-4 规格书(信号滤波器)

◆ 技术参数 Specification

| | |
|------------------------|-----------|
| 额定电压 Rated voltage | 250VAC |
| 额定电流 Rated current | 2A |
| 线数 Line Quantity | 4 |
| 气候类别 Climatic category | 25-070/21 |

◆ 外形尺寸 Dimension

Outline Drawing and Dimensions: (mm)

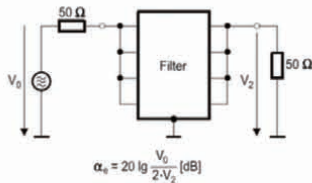


屏蔽房滤波器的插损测试

How to Test RF shielding room Filter insertion loss

1. 插入损耗测试原理图: Test theory map

Insertion loss α_n (typical values at $Z = 50 \Omega$)
Measurement circuit



Asymmetrical measurement circuit to MIL-STD-220A

3. 如滤波器安装在屏蔽体上可下图的方法测试插损。但滤波器的进线和出线如不能保证完全屏蔽隔离及整个测试系统可靠的共地性(接地不好对插损测试影响很大),用这种方法测试的插损值就会没有上面的效果好,相差较大。
If the filter assemble with the RF shielding room, we usually do the measure test as following. However, this test method is not as good as method A if the filter Line in and Line out could not warranty for signal shielding completely and the test system connect with the right earth line system.



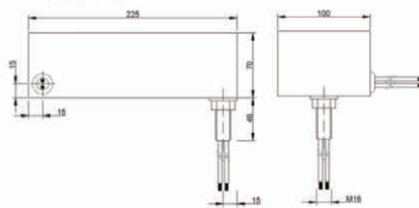
※ 滤波器实物照片链接: <http://www.hmemc.com/en/product.php?cplm=29-39=滤波器>

HM-SF-FireAlarm8 规格书

◆ 技术参数 Specification

| | |
|-----------------------------|-----------|
| 额定电压 Rated voltage | 250VAC |
| 额定电流 Rated current | 5A |
| 线数 Line | 8 |
| 气候类别 Climatic category | 25-070/21 |
| 试验电压 Test voltage (2u/1Min) | 1000VDC |
| 线-线 Line-to-line | 1000VDC |
| 线-壳 Line-to-case | 1000VDC |

◆ 外形尺寸 Dimension



◆ 电性能 Electrical characteristics

用于电脑房前的消防报警设备信号滤波
Use for fire alarm system in RF shielding room, EMC chamber for signal line purification.

典型插入损耗 Typical insertion loss

| Frequency Band | Attenuation |
|----------------|-------------|
| 150K-10G | 100dB |

HM-PF-150FTC3 规格书(FeedThrough Filter 馈通滤波器)

1. Outline Drawing and Dimensions: (mm)



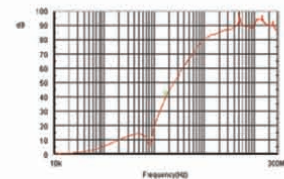
2. Specification:

Rated Voltage: 250VAC
Rated Current: 150A
Operating frequency: 50/60Hz
Leakage Current: (250V/50Hz) <= 4mA
Test Voltage(2S): 2250VDC
Temperature Range: -40°C ~ +85°C

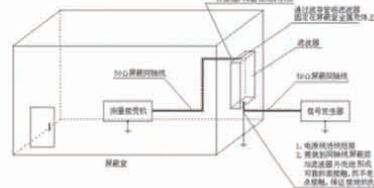
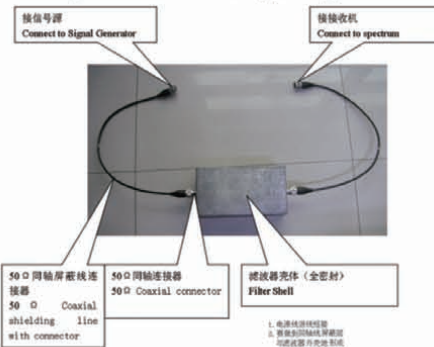
3. Circuit Diagram:



4. Insertion Loss in dB: (Measured in 50 Ohm system)



2. 我公司用一个专门测试盒通过网络/频谱分析仪测插损的(见下图) We use a special test box to test the insertion loss by spectrum equipment



| Model | Frequency Range | Attenuation |
|-------|-----------------|-------------|
| 1 | 150K-10G | 100dB |
| 2 | 150K-10G | 100dB |
| 3 | 150K-10G | 100dB |
| 4 | 150K-10G | 100dB |
| 5 | 150K-10G | 100dB |
| 6 | 150K-10G | 100dB |

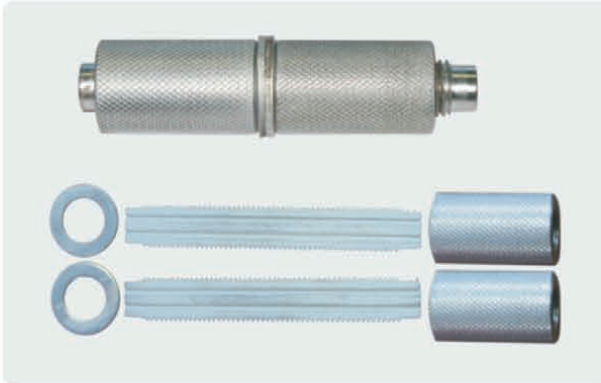
| Item | Value |
|---------|---------------|
| 1. 电压 | 250VAC |
| 2. 电流 | 150A |
| 3. 频率 | 50/60Hz |
| 4. 漏电流 | <= 4mA |
| 5. 试验电压 | 2250VDC |
| 6. 温度范围 | -40°C ~ +85°C |



波导管 Wave Tube

HM-WT系列波导管设计用于屏蔽机房或屏蔽机柜中非金属材质线缆过壁用途，为光纤、红外线发射器等设备提供一个不影响屏蔽性能的通路。根据不同的屏蔽要求及过壁线路物理参数，可为用户设计生产各种规格标准或非标型号的波导管。

HM-WT series wave tube is designed for non-metal cable pass through the RF shielding room panel, offer a special pass through route for optic cable, IR beam and others. It won't effect the RF shielding performance, it's available to design and produce base on customer's special requirment.



黄铜波导管
Brass wave tube



蜂窝波导管
Wavetube with Vent core



水波导管
Water wave tube



多路光纤波导管
Fiber cable wave tube



不锈钢波导管
Stainless wave tube



※波导管实物照片链接：<http://www.hmemc.com/en/lookcp.php?cpid=49>=波导管

波导管 Wave Tube



※波导管实物照片链接：<http://www.hmemc.com/en/lookcp.php?cpid=49>=波导管

导电铜棉 Copper cotton

HM-CW系列导电铜棉是我司专门为屏蔽室，核磁共振室，屏蔽箱，电波暗室设计的，用来填充泄露点缝隙的金属材料，具有导电性能好，屏蔽效能高，性价比高，施工简便等优点。

HM-CW series copper cotton is specially designed for RF Shielding room, MRI Shielding room, RF shielding cabinet and EMC chamber. It is used to fill the metal material of the leakage point gap. It has good electrical conductivity and shielding efficiency, high cost performance and easy construction. Etc.



导电衬垫 EMI Gasket

HM-EM系列导电衬垫是我司专门为屏蔽室，暗室，屏蔽柜设计的，安装在屏蔽室壳体中间及簧片下方，保证屏蔽效能的配备配件，标准形状有圆形、矩形、P型、B型，材料有镍铜合金，镀锡铜包钢，铍铜合金，镀锡铜合金等可供选择，具有屏蔽效果好，施工简单等特点，普遍应用于屏蔽项目的施工中。

HM-EM series EMI Gasket is specially designed for shielding room, EMC Chamber and shielding cabinet. It is installed in the middle of the shielding room panels or under the fingers to improve the shielding effectiveness. The standard shape is round and rectangular. P type, B type, the material include nickel-copper alloy, tin-plated copper-clad steel, beryllium copper alloy, tin-plated copper alloy, etc. It has the characteristics of good shielding effect and simple construction, and is widely used in the construction of shielding projects.



| 规格 | | |
|----------|--------------|------------|
| 蒙乃尔丝 | -BS3075-NA13 | (0.11毫米直径) |
| 铝丝5056 | -AMS 4182 | (0.13毫米直径) |
| 镀锡铜包钢丝 | -ASTM B520 | (0.11毫米直径) |
| 不锈钢丝 | -Alloy 304 | (0.13毫米直径) |
| 硅橡胶海绵 | -AMS 3195 | |
| 固体硅胶/管 | -ZZ-R-765 | |
| 固体氯丁橡胶/管 | -Mil-R-6855 | |

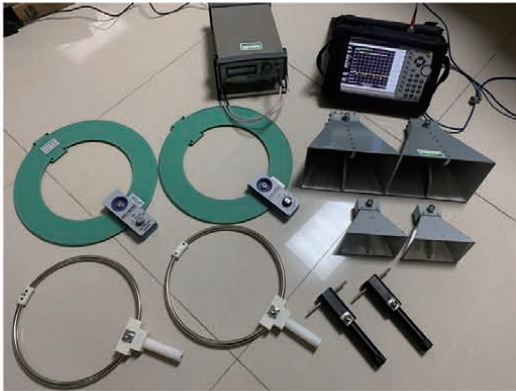
| 频率 | 场 | 蒙乃尔丝 | 铝丝 | 镀锡铜包钢丝 | 不锈钢丝 |
|--------|---|------|-----|--------|------|
| 10KHz | H | 45 | 40 | 60 | 40 |
| 100KHz | H | 49 | 45 | 65 | 44 |
| 1MHz | H | 60 | 60 | 85 | 58 |
| 1MHz | E | 125 | 125 | 125 | 125 |
| 10MHz | E | 120 | 120 | 120 | 120 |
| 100MHz | E | 100 | 100 | 108 | 100 |
| 400MHz | P | 98 | 95 | 99 | 94 |
| 1GHz | P | 85 | 76 | 78 | 76 |
| 10GHz | P | 80 | 65 | 62 | 60 |



| 规格 | | |
|--------|--------------|------------|
| 蒙乃尔丝 | -BS3075-NA13 | (0.11毫米直径) |
| 铝丝5056 | -AMS 4182 | (0.13毫米直径) |
| 镀锡铜包钢丝 | -ASTM B520 | (0.11毫米直径) |
| 不锈钢丝 | -Alloy 304 | (0.13毫米直径) |

| 频率 | 场 | 蒙乃尔丝 | 铝丝 | 镀锡铜包钢丝 | 不锈钢丝 |
|--------|---|------|-----|--------|------|
| 10KHz | H | 45 | 40 | 60 | 40 |
| 100KHz | H | 49 | 45 | 65 | 44 |
| 1MHz | H | 60 | 60 | 85 | 58 |
| 1MHz | E | 125 | 125 | 125 | 125 |
| 10MHz | E | 120 | 120 | 120 | 120 |
| 100MHz | E | 100 | 100 | 108 | 100 |
| 400MHz | P | 98 | 95 | 99 | 94 |
| 1GHz | P | 85 | 76 | 78 | 76 |
| 10GHz | P | 80 | 65 | 62 | 60 |

屏蔽体屏蔽性能测试设备 RF Shielding performance testing system



为保证产品性能,我单位自行研发生产了用于屏蔽效能测试用的全频段测试天线,测试频率覆盖9KHz-40GHz,配合专用信号发生器和频谱分析仪系统,可以对产品的屏蔽性能完成全频段测试。

To ensure product performance, our company has independently developed and produced a full-band test antenna for shielding effectiveness testing. The test frequency covers 9KHz-40GHz. Together with a dedicated signal generator and spectrum analyzer system, we can complete full-band testing of the product's shielding performance.

Antenna **HM-TA-B** (450M、950M)

HM-TA-B天线是用于UHF测量的磁场天线。(450M、950M)

The HM-TA-B is a magnetic field antenna for UHF measurements. (450M、950M)



HM-TA-L2 (10kHz-4MHz)

HM-TA-L2是用于VLF, LF和MF测量的磁场天线。该天线允许测试磁场屏蔽和低于4 MHz的频谱监测。L-2模式是全向的。

The HM-TA-L2 is a magnetic field antenna for VLF, LF and MF measurements. This antenna allows testing the magnetic field shielding and the spectrum monitoring below 4 MHz. The L-2 pattern is omnidirectional.



HM-TA-L4 (2MHz-4MHz)

HM-TA-L4是用于电磁场的磁性分量的无源调谐环形天线。它允许通过在五个预设频率之一上调谐天线进行标准宽带测量或选择性测量。该天线非常适合测量不同类型MRI (0.3 T, 0.5 T, 1T, 1.5 T) 的磁场和屏蔽效能测量。

The HM-TA-L4 is a passive tuned loop antenna for the magnetic component of the electromagnetic field. It allows standard wide band measurements or selective measurements, by tuning the antenna on one of the five preset frequencies. This antenna is ideal for measuring the magnetic field in different types of MRI (0.3 T, 0.5 T, 1 T, 1.5 T) and for shielding effectiveness measurements.



屏蔽体屏蔽性能测试设备 RF Shielding performance testing system

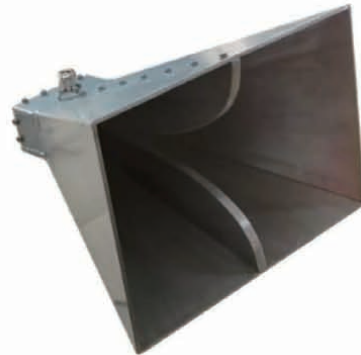
Antenna

HM-TA-H-1-6G/NF

主要性能指标 Technical Parameter

| | |
|------------------------|---------------------------------------|
| 频率范围 Frequency Band | 1000-6000 MHz |
| 增益 Gain | 1G 7.3dBi 3G 10.6dBi 6G 13.5dBi |
| 阻抗 Resistance | 50Ω |
| 电压驻波比 VSWR | ≤2.1 |
| 极化方式 Polarization Mode | 垂直极化/水平极化 Horizontal/Vertical |
| 垂直面角度 Vertical Angle | 20.3° |
| 水平面角度 Horizontal Angle | 17.4° |
| 接口形式 Connector | N 型母头 |
| 最大承载功率 Power Handling | 100W |

外形图: Shape View:



主要机械性能指标 Mechanical Parameter

| | |
|-----------------------------------|-------------------------|
| 天线材料 Structure Material | 天线主体铝材质 Aluminum |
| 颜色 Color | 灰 Grey |
| 操作温度范围 (°C) Operate Temp. (°C) | -20 — 70 |
| 存储温度范围 (°C) Stock Temp. (°C) | -35 — 80 |
| 重量 Weight | ≤ 1.3 Kg |
| 天线外型尺寸 Outer Size | 24.5 cm X 16.5cm X 23cm |

Antenna

HM-TA-H-6-18G/NF

主要性能指标 Technical Parameter

| | |
|------------------------|--|
| 频率范围 Frequency Band | 6000-18000 MHz |
| 增益 Gain | 6G 11.3dBi 12G 12dBi 18G 14.5dBi |
| 阻抗 Resistance | 50Ω |
| 电压驻波比 VSWR | ≤2.3 |
| 极化方式 Polarization Mode | 垂直极化/水平极化 Horizontal/Vertical |
| 垂直面角度 Vertical Angle | 化50.4° |
| 水平面角度 Horizontal Angle | 40.5° |
| 接口形式 Connector | N 型母头 |
| 最大承载功率 Power Handling | 100W |

外形图: Shape View:



主要机械性能指标 Mechanical Parameter

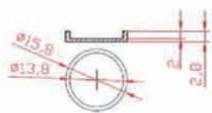
| | |
|-----------------------------------|-------------------------|
| 天线材料 Structure Material | 天线主体铝材质 Aluminum |
| 颜色 Color | 灰色 Grey |
| 操作温度范围 (°C) Operate Temp. (°C) | -20 — 70 |
| 存储温度范围 (°C) Stock Temp. (°C) | -35 — 80 |
| 重量 Weight | ≤ 1 Kg |
| 天线外型尺寸 Outer Size | 14.5 cm X 10.5cm X 13cm |

其它屏蔽配件 Other fittings for EMC Chamber

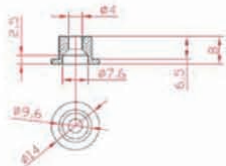
华明电子根据用户需求开生产了各类相关屏蔽配件，包括屏蔽玻璃、铁氧体挂板、铁氧体固定件、吸波锥形体表面挂装泡沫板、微波暗室主控机房与测试机房连接屏蔽管道、金属镀膜屏蔽胶带等。我单位也可根据用户所提技术性能要求定制相关各类其他屏蔽配件。

HUAMING Electronic Equipment Co.,Ltd manufacture many other EMC fittings base on customer's requirement in past years.Include the RF shielding windows, Ferrite installation panel, Ferrite fixture fittings, Foam panel for Absorbe matedal, special waytube connect the EMC chamber mainroom to control room, aluminium tape, copper tape and others We are willing to design and produce other special fittings base on your requirement. Our R&D deparement will try our best to support your business.

铁氧体固定件上盖
Model A: Nuts Cover



铁氧体固定件主体
Model B: Small Nuts

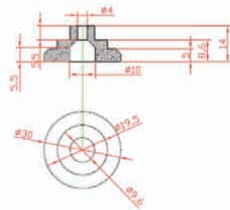


吸波材料挂装背板
Model D: Absorb Material Assemble Panel

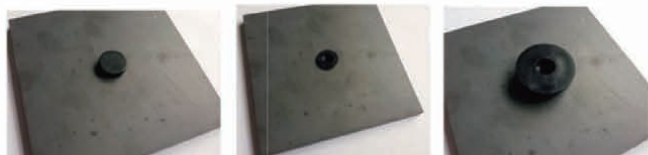


暗室使用投影仪屏蔽箱

铁氧体吸波材料挂板转接件
Model C: Big Nuts



暗室摄像监控装置



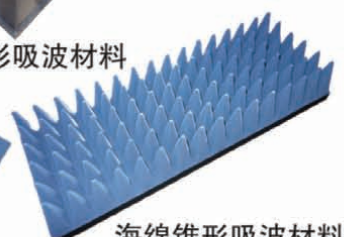
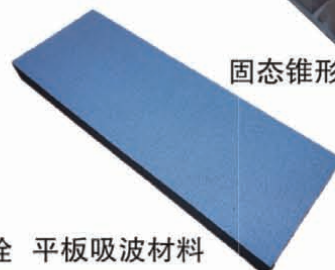
固态锥形吸波材料



TCS导电衬



10mm屏蔽机房板块安装螺栓 平板吸波材料



海绵锥形吸波材料



※屏蔽配件实物照片链接：<http://www.hmemc.com/en/product.php?cplm=29--屏蔽配件>

其它屏蔽配件 Other fittings for EMC Chamber

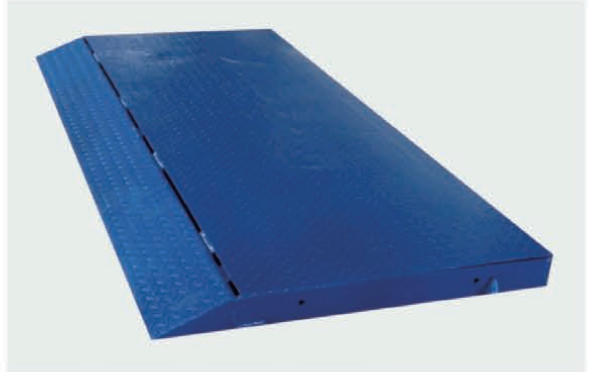
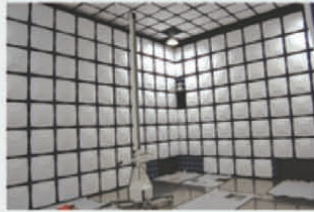
屏蔽玻璃
RF Shielding Windows



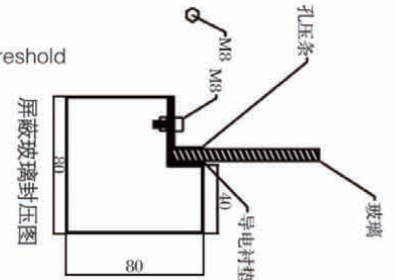
铝箔屏蔽胶带
Aluminium Tape



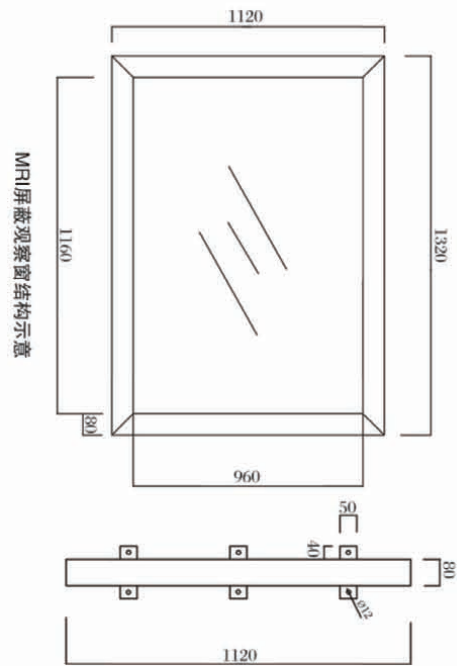
吸波材料挂装泡沫板
Foam panel for Absorbe material



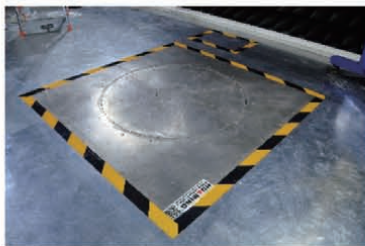
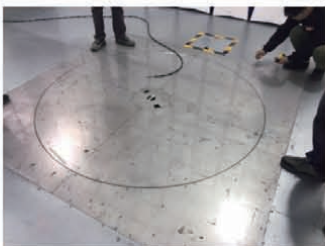
气动升降门槛
Pneumatic Power Threshold



屏蔽玻璃
RF Shielding Windows



MRI屏蔽观察窗结构示意图



转台
Turn-Table



※屏蔽配件实物照片链接: <http://www.hmemc.com/en/product.php?cplm=29--=屏蔽配件>

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▲ 西门子避雷器（无锡）有限公司
Siemens Surge Arresters Co.,LTD



▲ MicroMill 电子有限公司(英国)
MicroMill Electronics Limited (United Kingdom)

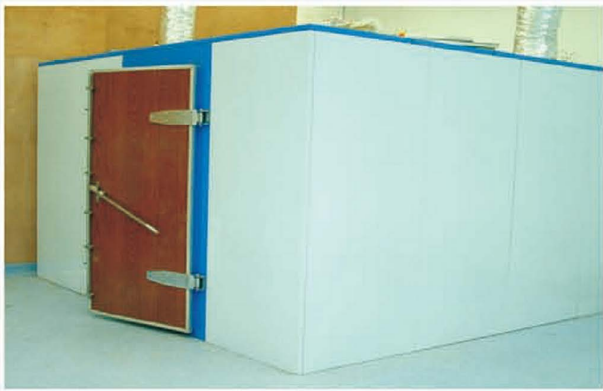
政府机构：

河南省无线电管理委员会
陕西省无线电管理委员会
吉林市无线电管理委员会
钦州市无线电管理委员会
杭州市检察院
福州公安局
上海市公安局
上海市国家安全局
南京市房屋产权监理处
上海铁路局
哈尔滨铁路局
宝鸡东机务段
延吉铁路机务段
苏州计量所
上海市徐汇区工商局
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江苏省电动工具产品质量监督检验中心
中般重工集团郑州 713 研究所
中般重工集团南京 724 研究所
南京东南司法鉴定中心

科研院校：

中国科学院武汉物理与数学研究所
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中国工程物理研究院
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北京大学
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CAL-COMP Electronics(SuZhou)Co.,LTD



▲ 爱立信通信软件研发(上海)有限公司
Ericsson Communication Software R&D(ShangHai)Co.,LTD

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南京熊猫爱立信通信有限公司
富士康科技有限公司
华磁科技(宁波)有限公司
启佳通讯(昆山)有限公司
鼎桥通信技术有限公司
夏弗纳电磁兼容(上海)有限公司
联芯科技股份有限公司
思源电气股份有限公司
通用电气(中国)有限公司
霍尼韦尔(中国)有限公司
Broadcom 新加坡有限公司
高通信息科技(上海)有限公司
三星半导体(中国)研究开发有限公司
思科电子(中国)有限公司
伟创力电子科技有限公司
陕西海泰电子股份有限公司
上海晨思电子股份有限公司
Intel 科技(上海)有限公司
南京南大波平电子信息有限公司
名硕电脑(苏州)有限公司
中国联通甘肃省分公司
中国移动新疆分公司
中国铁通山东分公司
UT 斯达康通讯有限公司
捷普科技(上海)有限公司
西门子避雷器(无锡)有限公司
韩国 VK 通信上海分公司
熊猫集团国家视像产品实验室
富士康科技集团
诺基亚西门子通信杭州研发中心
铁三角(杭州)科技有限公司
泰国泰金宝科技股份有限公司
上海三基电子工业有限公司
上海剑桥科技股份有限公司
深圳市亚美斯通电子有限公司
郑州瑞孚净化股份有限公司
北京泰派斯特科技发展有限公司
晶晨半导体(上海)股份有限公司

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永康正大实业有限公司
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上海浦东软件园股份有限公司
汉桑(南京)科技有限公司
无线绿洲通信技术有限公司
TCL 光电科技(惠州)有限公司
北京经纬恒润科技有限公司
西安嘉业航空科技有限公司
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浙江省奥特工具有限公司
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北京笔克展览展示有限公司
丹东梅森时代商贸有限公司
丹东市瑞德磁器电子有限公司
Rohde&Schwarz 新加坡服务中心
Solectron 旭电(苏州)有限公司
Quantel Private Limited 新加坡
OYI Manufacturing Company Bhd 马来西亚
Paradox Security System Ltd 加拿大
MicroMill 电子有限公司英国
Microwave Vision Group 集团有限公司
新加坡新科电子集团有限公司
南非 Isert 集团有限公司
冰岛海岸警卫队
Holland Shielding Systems 集团有限公司

[工程实例 Project Photo]

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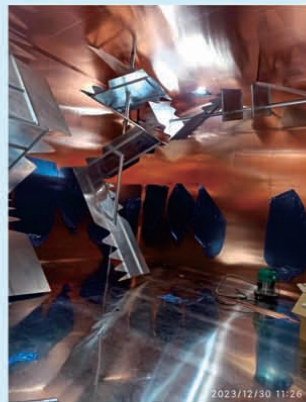
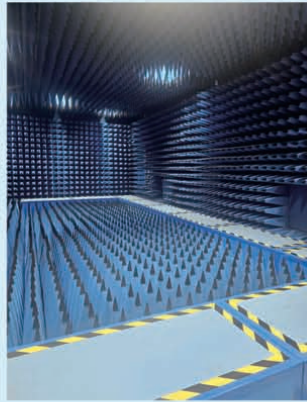
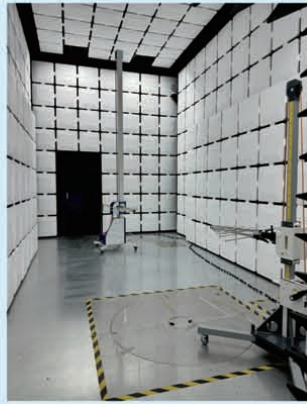
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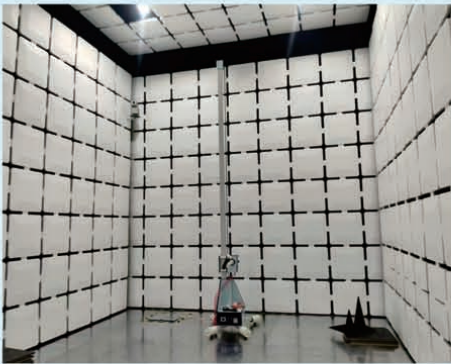
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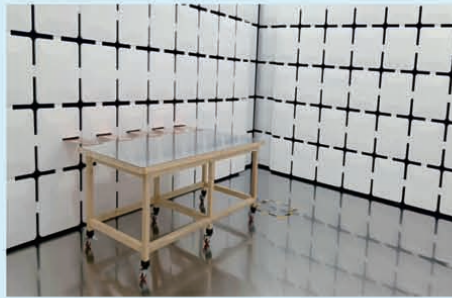
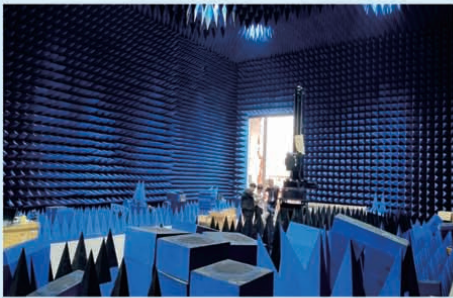
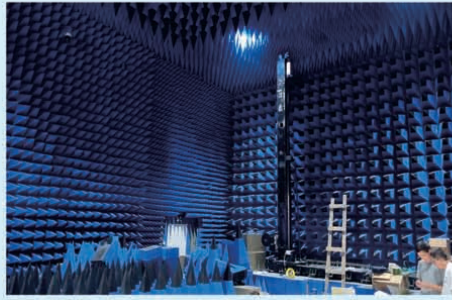
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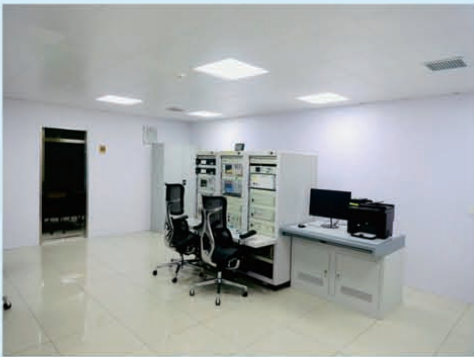
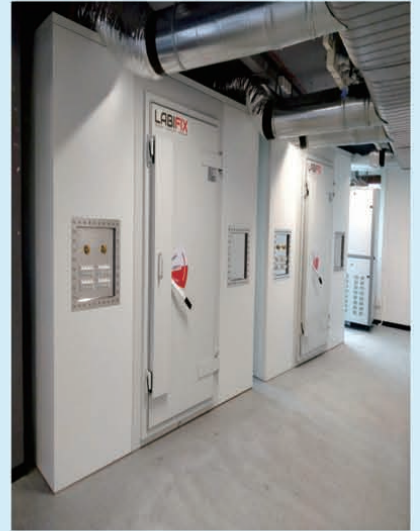
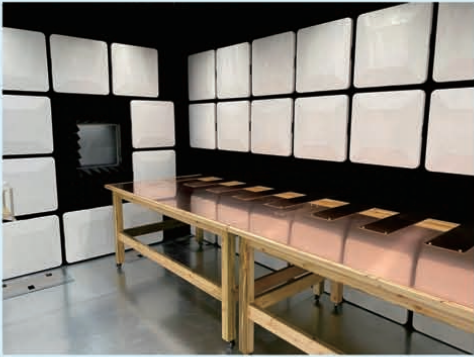
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