

Mechanical performance:<机械性能>

- .Single pin Contact force: 80g±20g at 1.1mm working stroke
- <接触弹力: 80g±20g在1.1mm的工作行程>
- .Full stroke: 1.60mm <最大行程: 1.60mm>
- .Life test: 20,000 cycles <寿命: 20000次>

Electrical performance:<电气性能>

- .Rated voltage & current: DC 12V, 3A
- <额定电压, 电流: DC 12V, 3A>
- .Single pin Contact resistance: 30 milliohm Max.
- <单pin接触阻抗: 30 milliohm Max.>
- .When the current is more than 1A, then need to add a delay circuit(3 second)
- <当电流大于1A时, 则需要增加延时电路(3秒)>
- .100% open & short test.
- <100%导通, 短路测试>

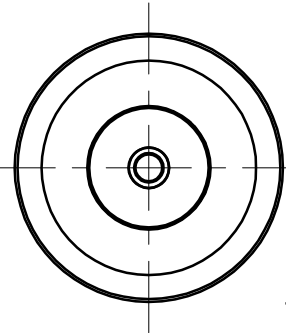
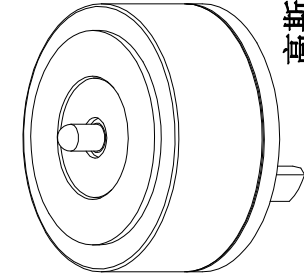
Environment performance:<环境性能>

- .Operating Temp:-30 to +60℃
- <工作温度: -30 to +60℃>
- .Salt spray test: 5% salt solution, no rust for 24 hours
- <盐雾测试: 5%盐溶液, 24小时无锈蚀>
- . "★"Marked is Critical dimension, "cpk" Marked is cpk dimension, they must be checked by QC.
- <标示"★"是重点尺寸, 标示"cpk"是cpk尺寸, 它们必须被QC检查. First Part Inspections are marked by ball marker "XX" >
- <用球标示的是首件尺寸"XX">
- .The product must be checked for use by male and female
- <产品必须做公母对接使用检验>
- .The magnetic adsorption force of male and female is 500g Min.
- <公母吸附力为500g最小>
- .RoHS compliant product
- <符合RoHS产品要求>

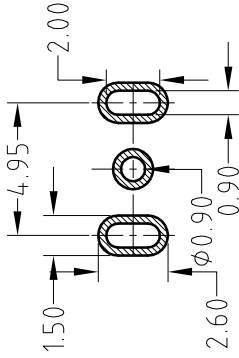
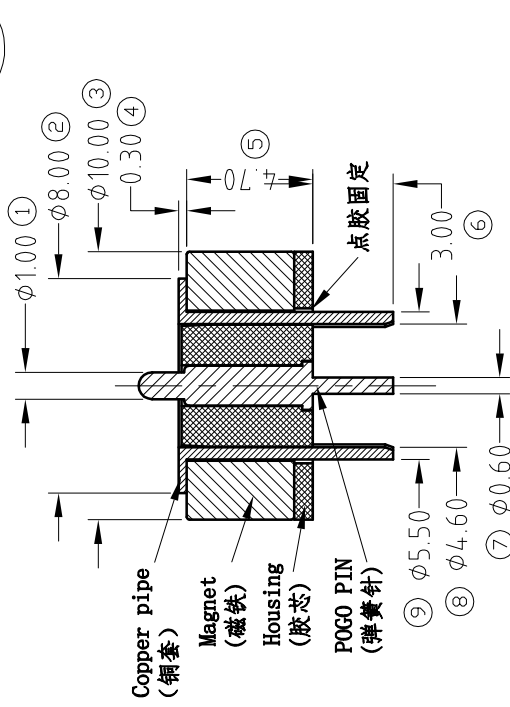
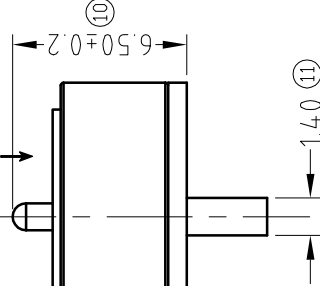
To ensure the best usage, please operate it based on the working height.

为确保最佳使用, 请根据工作高度进行操作。

Based on the engineering drawings, shall not exceed the maximum allowed compression
根据工程图纸, 不应超过允许的最大压缩量。



高斯值:3200±200Gs
(测磁铁表面)



Recommended pcb layout
layout tolerance: ±0.05mm

6	CFE包装	MFA000203-01A1AF-PK	
5	透明, 乐赛尔67胶水	LSR-67	0.03g
4	Pogo pin:plunger Lea-free Brass C6801 plating 0.25um Au, barrel Lea-free Brass C6801 plating 0.125um Au <弹簧针: 针轴无铅黄铜C6801镀金0.25um, 针管无铅黄铜C6801镀金0.125um>	BP14211-F	IPC
3	Copper sleeve Lea-free Brass C6801 plating Ni <铜套 无铅黄铜C6801 表面镀镍>	B142-W2100-F	IPC
2	N35 NdFeB Magnet plating Ni-Cu-Ni <N35 钕铁硼磁铁 表面镀镍铜镍>	B142-M6101	IPC
1	Black HTN UL94 V-0 <黑色 HTN UL94 V-0>	01000-H03	IPC
序号 <NO.>	规格 <Specification>	料号 <P/N>	用量 <Usage>

2Pin 黑色 磁吸式连接器

A2	2021.12.10	增加包装料号及RoHS图标
A1	2021.08.11	组装后胶芯脱落增加胶水
REV	DATE 日期	DESCRIPTION描述

THIS DOCUMENT IS THE SOLE PROPERTY OF
CFE CORPORATION CO., LTD., AND SHOULD
NOT BE USED IN WHOLE OR IN PART
WITHOUT PRIOR WRITTEN PERMISSION.

SHEET: 1 of 1

SCALE	NA	UNIT:mm
ANGLE	±2°	A4
0°6	±0.10	
>6°30	±0.20	DRAW
>30	±0.30	CHECK
GENERAL TOLERANCE UNLESS OTHERWISE NOTED		APPRO

CFE® 弹簧针磁吸连接器解决方案商
Pogo Pin Magnetic Connector Solutions

PART NO.	MMA000204-01A1AF
FILE NAME	BP142XX
TITLE.	Lead Free Male Magnetic connector 无铅公端磁吸连接器

无铅
Lead-free
<1000PPM

RoHS

Approved Signature