

3.3> Magnetic Pogo Pin Connector

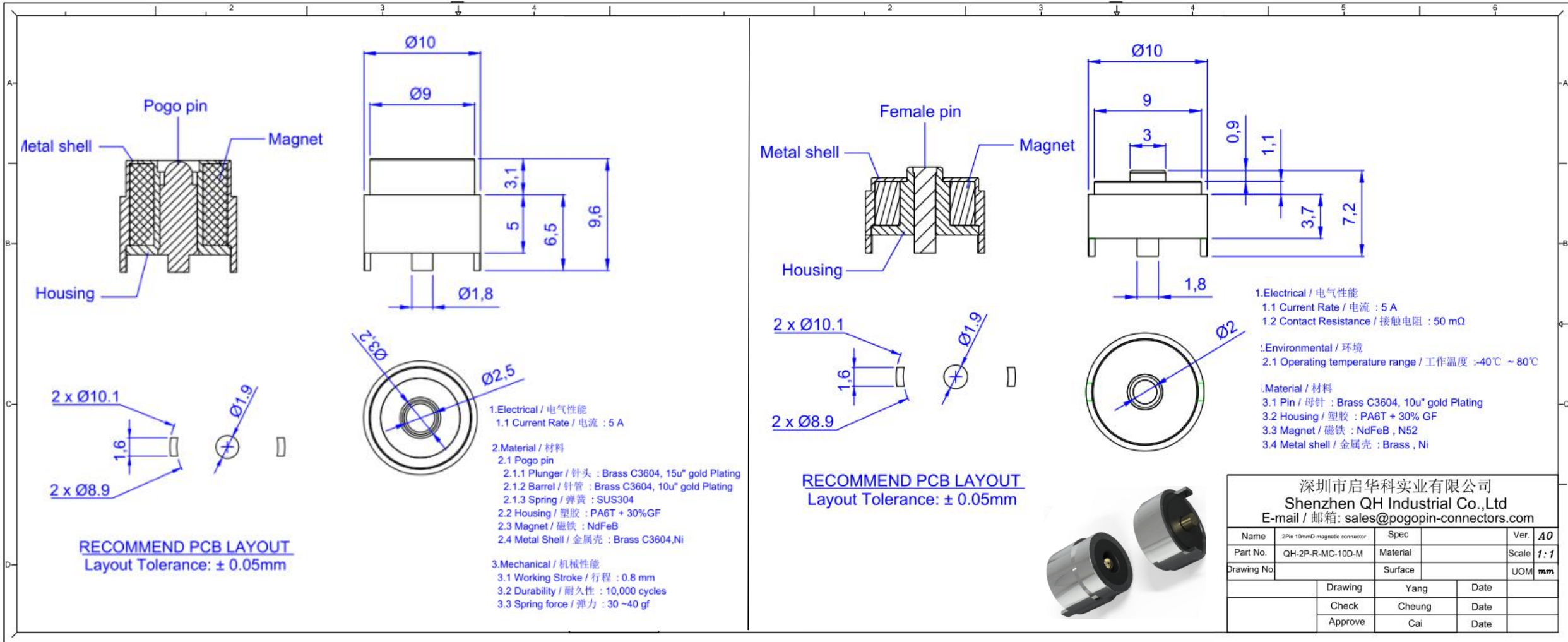
Product	2Pin Round Magnetic Connector	2Pin Round Magnetic Connector	2Pin Round Magnetic Connector	3Pin Magnetic Connector	3Pin Magnetic Connector
Item Code	QH-M-F&M-Round-001	QH-M-F&M-Round-002	QH-M-F&M-Round-0021	QH-M-F&M-RW-003	QH-M-F&M-RW-004
Right Angle Pins					
Straight Pins					
With PCB					

3.3> Magnetic Pogo Pin Connector

Product	4Pin Magnetic Connector	5Pin Magnetic Connector	6Pin Magnetic Connector	7Pin Magnetic Connector	7Pin Magnetic Connector	8Pin Magnetic Connector
Item Code	QH-M-F&M-RW-005	QH-M-F&M-RW-006	QH-M-F&M-RW-007	QH-M-F&M-RW-008	QH-M-F&M-RW-009	QH-M-F&M-RW-010
Right Angle Pins						
Straight Pins						
With PCB						

3.3> Magnetic Pogo Pin Connector

QH-M-F&M-Round-001



3.3> Magnetic Pogo Pin Connector

QH-M-F&M-Round-002

1. Electrical / 电气性能
 1.1 Current Rate / 电流 : 2 A
 1.2 Contact Resistance / 接触电阻 : 50 mΩ

2. Environmental / 环境
 2.1 Operating temperature range / 工作温度 : -40°C ~ 80°C

3. Material / 材料
 3.1 Pin / 母针 : Brass C3604, 1u" gold Plating
 3.2 Housing / 塑胶 : PA46 + 30% GF
 3.3 Magnet / 磁铁 : NdFeB, N52
 3.4 Metal shell / 金属壳 : Brass, Ni

RECOMMEND PCB LAYOUT
 Layout Tolerance: ± 0.05mm

1. Electrical / 电气性能
 1.1 Current Rate / 电流 : 2 A
 1.2 Contact Resistance / 接触电阻 : 50 mΩ

2. Material / 材料
 2.1 Pogo pin
 2.1.1 Plunger / 针头 : Brass C3604, 3u" gold Plating
 2.1.2 Barrel / 针管 : Brass C3604, 3u" gold Plating
 2.1.3 Spring / 弹簧 : SUS304
 2.2 Housing / 塑胶 : PA46 + 30%GF
 2.3 Magnet / 磁铁 : NdFeB
 2.4 Metal Shell / 金属壳 : Brass C3604, Ni

3. Mechanical / 机械性能
 3.1 Working Stroke / 行程 : 1.5 mm
 3.2 Durability / 耐久性 : 10,000 cycles
 3.3 Spring force / 弹力 : 50 ± 15% gf

RECOMMEND PCB LAYOUT
 Layout Tolerance: ± 0.05mm

深圳市启华科实业有限公司
 Shenzhen QH Industrial Co.,Ltd
 E-mail / 邮箱: sales@pogopin-connectors.com

Name	2Pin 10mmD magnetic connector	Spec		Ver.	A0
Part No.	QH-2P-R-MC-10D-M	Material		Scale	1:1
Drawing No.		Surface		UOM	mm
	Drawing	Yang	Date		
	Check	Cheung	Date		
	Approve	Cai	Date		

3.3> Magnetic Pogo Pin Connector

QH-M-F&M-Round-0021

RECOMMEND PCB LAYOUT
Layout Tolerance: $\pm 0.05\text{mm}$

- Electrical / 电气性能
 - 1.1 Current Rate / 电流: 3.0 A
 - 1.2 Contact Resistance / 接触电阻: 50 m Ω
- Environmental / 环境
 - 2.1 Operating temperature range / 工作温度: $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Material / 材料
 - 3.1 Pin / 针: Brass C3604, 3u" gold plating
 - 3.2 Housing / 塑胶: PA9T, Black
 - 3.3 Magnetic / 磁铁: NdFeB, N52, $\varnothing 9.0 \times 4.5 \times 3.3$
- General tolerance / 未注公差: Unit:mm
X = ± 0.30
.X = ± 0.15
.XX = ± 0.05
- SALT SPRAY / 盐雾试验: 48H

RECOMMEND PCB LAYOUT
Layout Tolerance: $\pm 0.05\text{mm}$

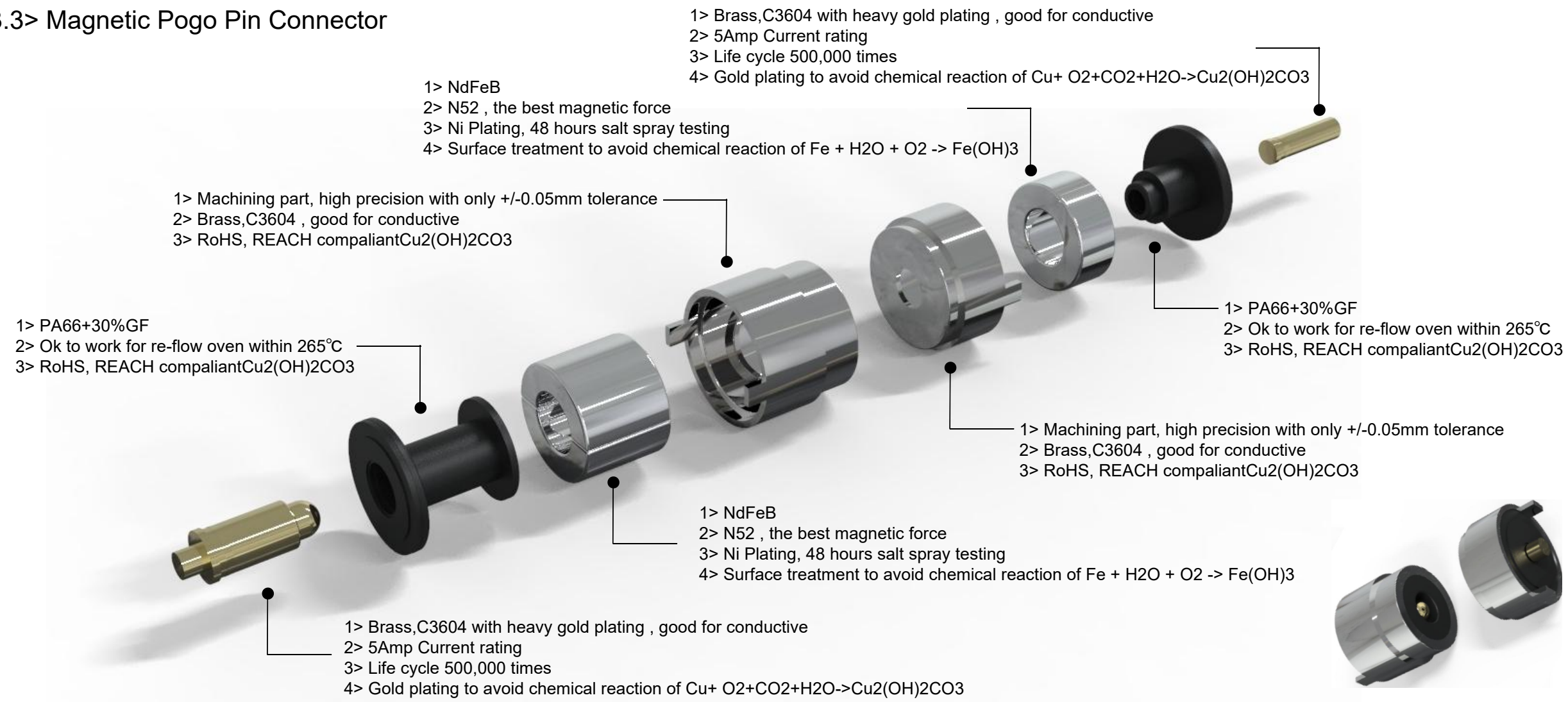
- Electrical / 电气性能
 - 1.1 Current Rate / 电流: 3.0A
 - 1.2 Contact Resistance / 接触电阻: 50 m Ω
- Environmental / 环境
 - 2.1 Operating temperature range / 工作温度: $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Mechanical / 机械性能
 - 3.1 Spring force / 弹力: $50 \pm 20\%$ gf
 - 3.2 Working stroke / 行程: 1.0 mm
 - 3.3 Durability / 耐久性: 10,000 cycles
- Material / 材料
 - 4.1 Plunger / 针头: Brass C3604, 5u" gold plating
 - 4.2 Barrel / 针管: Brass C3604, 5u" gold plating
 - 4.3 Spring / 弹簧: SUS304
 - 4.4 Housing / 塑胶: PA9T, Black
 - 4.5 Magnetic / 磁铁: NdFeB, N52, $\varnothing 9.0 \times 4.5 \times 3.3$
- General tolerance / 未注公差: Unit:mm
X = ± 0.30
.X = ± 0.15
.XX = ± 0.05
- SALT SPRAY / 盐雾试验: 48H

深圳市启华科实业有限公司
Shenzhen QH Industrial Co., Ltd
E-mail / 邮箱: sales@pogopin-connectors.com

Name	2Pin 10mmD magnetic connector	Spec		Ver.	A0
Part No.	QH-2P-R-MC-10D-M	Material		Scale	1:1
Drawing No.		Surface		UOM	mm
	Drawing	Yang	Date		
	Check	Cheung	Date		
	Approve	Cai	Date		

3> Product Catalogue

3.3> Magnetic Pogo Pin Connector



3.3> Magnetic Pogo Pin Connector

QH-M-F&M-RW-004

1.Electrical / 电气性能
 1.1 Current Rate / 电流 : 2 A
 1.2 Contact Resistance / 接触电阻 : 50 mΩ

2.Environmental / 环境
 2.1 Operating temperature range / 工作温度 : -40°C ~ 80°C

3.Mechanical / 机械性能
 3.1 Working Stroke / 行程 : 0.8 mm
 3.2 Durability / 耐久性 : 10,000 cycles
 3.3 Spring force / 弹力 : 25~30 gf

4.Material / 材料
 4.1 Plunger / 针头 : Brass C3604, 3u" gold Plating
 4.2 Barrel / 针管 : Brass C3604, 3u" gold Plating
 4.3 Spring / 弹簧 : SUS304
 4.4 Magnet / 磁铁 : NdFeB , N52, Ni Plating
 4.5 Housing / 塑胶 : PA66 + 30% GF

1.Electrical / 电气性能
 1.1 Current Rate / 电流 : 2 A
 1.2 Contact Resistance / 接触电阻 : 50 mΩ

2.Environmental / 环境
 2.1 Operating temperature range / 工作温度 : -40°C ~ 80°C

3.Material / 材料
 3.1 Female pin / 母针 : Brass C3604, 3u" gold Plating
 3.2 Magnet / 磁铁 : NdFeB , N52, Ni Plating
 3.3 Housing / 塑胶 : PA66 + 30% GF

深圳市启华科实业有限公司
 Shenzhen QH Industrial Co.,Ltd
 E-mail / 邮箱: sales@pogopin-connectors.com

Name	Spec	Ver.	A0
Part No.	Material	Scale	1:1
Drawing No.	Surface	UOM	mm
	Drawing	Yang	Date
	Check	Cheung	Date
	Approve	Cai	Date

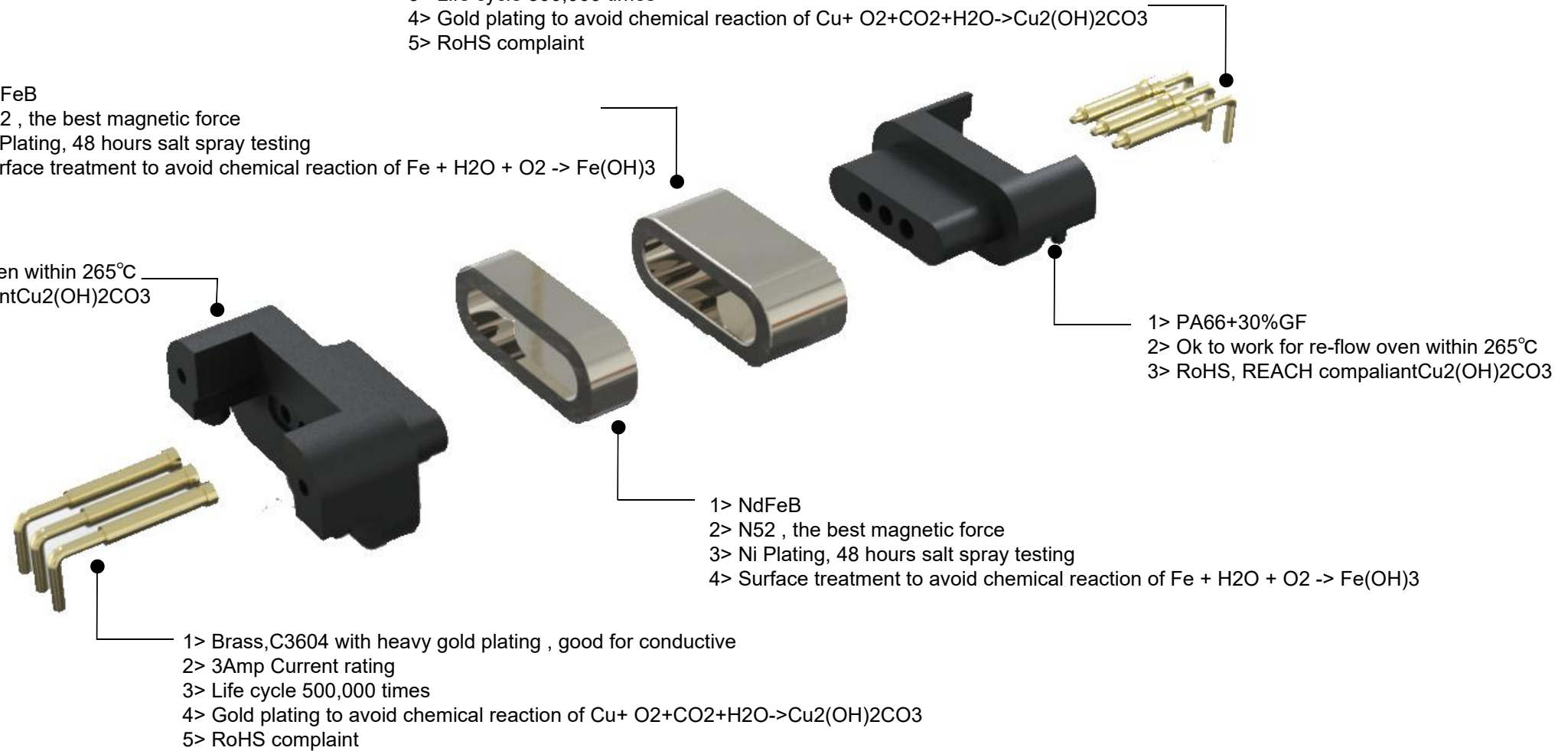
3> Product Catalogue

3.3> Magnetic Pogo Pin Connector

- 1> Brass,C3604 with heavy gold plating , good for conductive
- 2> 3 Amp Current rating
- 3> Life cycle 500,000 times
- 4> Gold plating to avoid chemical reaction of $Cu + O_2 + CO_2 + H_2O \rightarrow Cu_2(OH)_2CO_3$
- 5> RoHS compliant

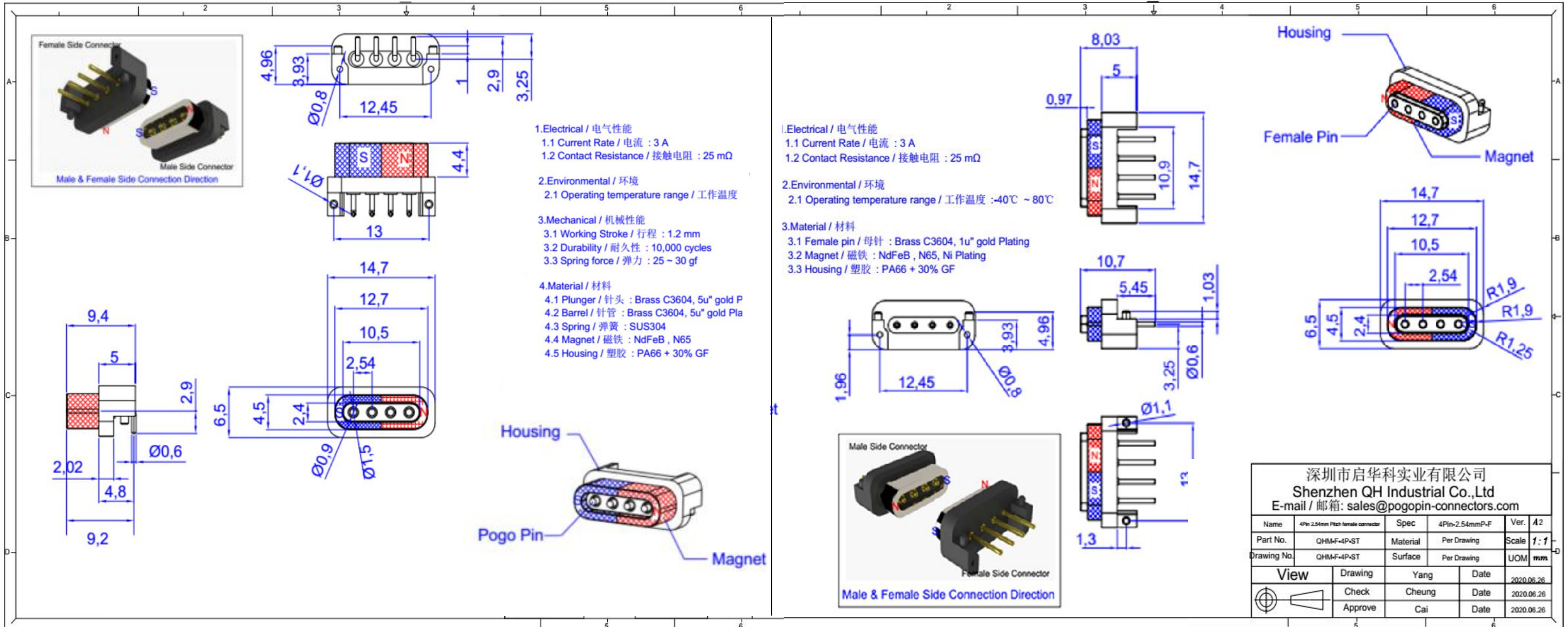
- 1> NdFeB
- 2> N52 , the best magnetic force
- 3> Ni Plating, 48 hours salt spray testing
- 4> Surface treatment to avoid chemical reaction of $Fe + H_2O + O_2 \rightarrow Fe(OH)_3$

- 1> PA66+30%GF
- 2> Ok to work for re-flow oven within 265°C
- 3> RoHS, REACH compliant $Cu_2(OH)_2CO_3$



3.3> Magnetic Pogo Pin Connector

QH-M-F&M-RW-005



3.3> Magnetic Pogo Pin Connector

- 1> Brass,C3604 with heavy gold plating , good for conductive
- 2> 3 Amp Current rating
- 3> Life cycle 500,000 times
- 4> Gold plating to avoid chemical reaction of $Cu + O_2 + CO_2 + H_2O \rightarrow Cu_2(OH)_2CO_3$
- 5> RoHS complaint

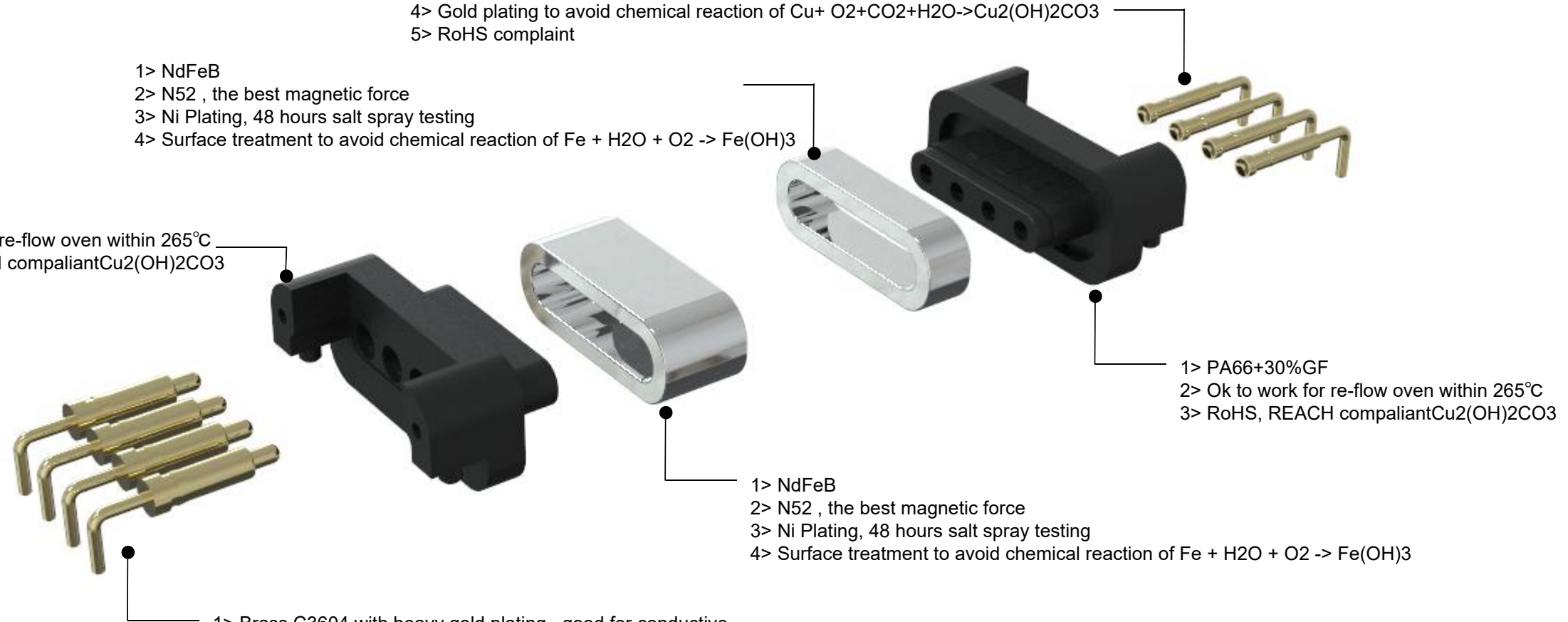
- 1> NdFeB
- 2> N52 , the best magnetic force
- 3> Ni Plating, 48 hours salt spray testing
- 4> Surface treatment to avoid chemical reaction of $Fe + H_2O + O_2 \rightarrow Fe(OH)_3$

- 1> PA66+30%GF
- 2> Ok to work for re-flow oven within 265°C
- 3> RoHS, REACH compliant $Cu_2(OH)_2CO_3$

- 1> PA66+30%GF
- 2> Ok to work for re-flow oven within 265°C
- 3> RoHS, REACH compliant $Cu_2(OH)_2CO_3$

- 1> NdFeB
- 2> N52 , the best magnetic force
- 3> Ni Plating, 48 hours salt spray testing
- 4> Surface treatment to avoid chemical reaction of $Fe + H_2O + O_2 \rightarrow Fe(OH)_3$

- 1> Brass,C3604 with heavy gold plating , good for conductive
- 2> 3Amp Current rating
- 3> Life cycle 500,000 times
- 4> Gold plating to avoid chemical reaction of $Cu + O_2 + CO_2 + H_2O \rightarrow Cu_2(OH)_2CO_3$
- 5> RoHS complaint



3.4> Cable pogo pin connector

QH-M-F&M-RW-006

1. Electrical / 电气性能
 1.1 Current Rate / 电流 : 2 A
 1.2 Contact Resistance / 接触电阻 : 25 mΩ

2. Environmental / 环境
 2.1 Operating temperature range / 工作温度 : -40°C ~ 80°C

3. Mechanical / 机械性能
 3.1 Working Stroke / 行程 : 1.2 mm
 3.2 Durability / 耐久性 : 10,000 cycles
 3.3 Spring force / 弹力 : 25 ~ 30 gf

4. Material / 材料
 4.1 Plunger / 针头 : Brass C3604, 5u" gold Plating
 4.2 Barrel / 针管 : Brass C3604, 5u" gold Plating
 4.3 Spring / 弹簧 : SUS304
 4.4 Magnet / 磁铁 : NdFeB, N65
 4.5 Housing / 塑胶 : PA66 + 30% GF

1. Electrical / 电气性能
 1.1 Current Rate / 电流 : 2 A
 1.2 Contact Resistance / 接触电阻 : 50 mΩ

2. Material / 材料
 2.1 Pin/ 针 : Brass C3604, 1u" gold Plating ;
 2.2 Housing / 塑胶 : PA66 + 30% GF
 2.3 Magnet 磁铁 : NdFeB, 表面镀镍, N52
 2.4 Cable : PVC

3. Environmental / 环境
 3.1 Operating temperature range / 工作温度 : -40 °C ~ 80 °C

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Name	Spec	Ver.	A0
Part No.	Material	Scale	1:1
Drawing No.	Surface	UOM	mm
	Drawing	Yang	Date
	Check	Cheung	Date
	Approve	Cai	Date

3.3> Magnetic Pogo Pin Connector

- 1> Brass,C3604 with heavy gold plating , good for conductive
- 2> 3 Amp Current rating
- 3> Life cycle 500,000 times
- 4> Gold plating to avoid chemical reaction of $Cu + O_2 + CO_2 + H_2O \rightarrow Cu_2(OH)_2CO_3$
- 5> RoHS complaint

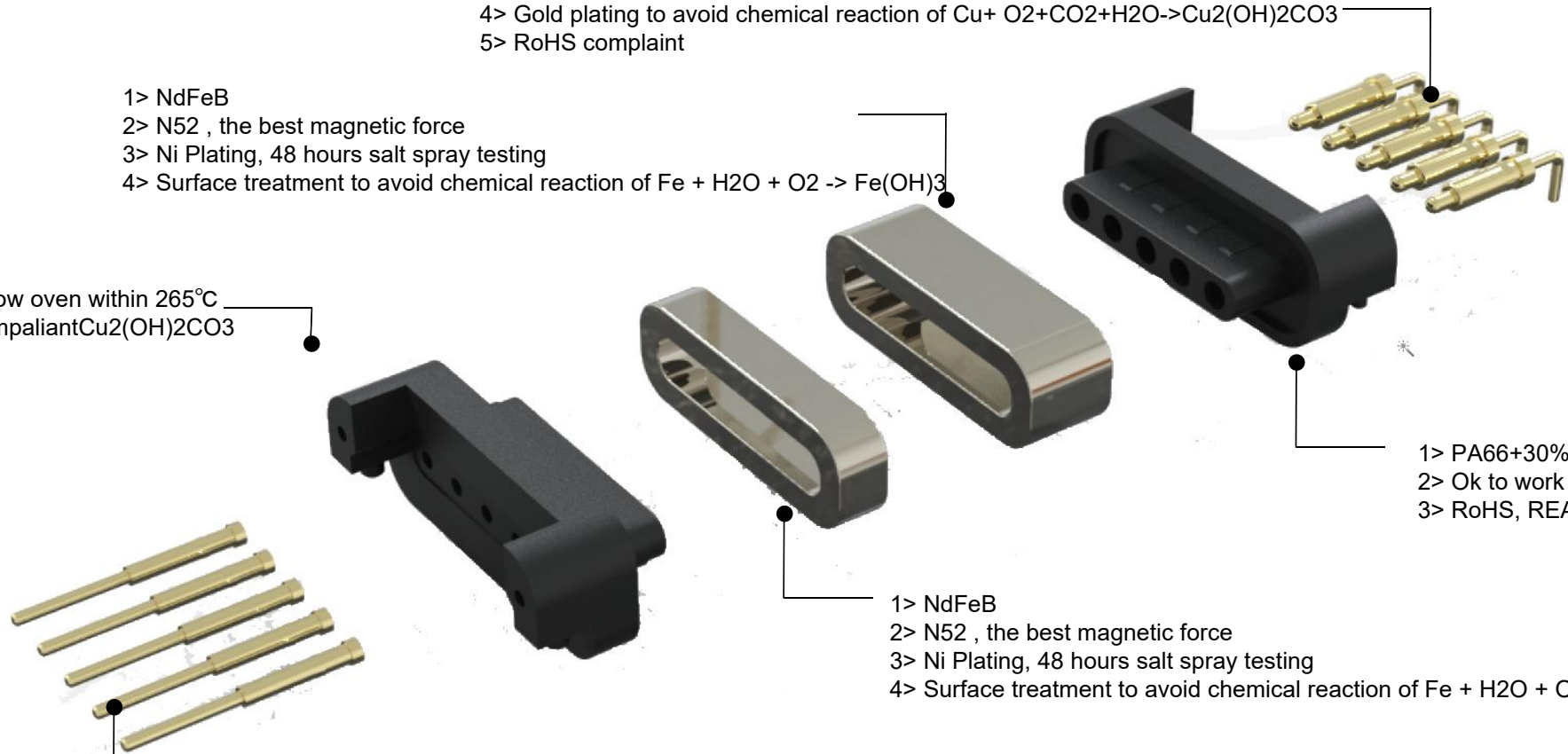
- 1> NdFeB
- 2> N52 , the best magnetic force
- 3> Ni Plating, 48 hours salt spray testing
- 4> Surface treatment to avoid chemical reaction of $Fe + H_2O + O_2 \rightarrow Fe(OH)_3$

- 1> PA66+30%GF
- 2> Ok to work for re-flow oven within 265°C
- 3> RoHS, REACH compliant $Cu_2(OH)_2CO_3$

- 1> PA66+30%GF
- 2> Ok to work for re-flow oven within 265°C
- 3> RoHS, REACH compliant $Cu_2(OH)_2CO_3$

- 1> NdFeB
- 2> N52 , the best magnetic force
- 3> Ni Plating, 48 hours salt spray testing
- 4> Surface treatment to avoid chemical reaction of $Fe + H_2O + O_2 \rightarrow Fe(OH)_3$

- 1> Brass,C3604 with heavy gold plating , good for conductive
- 2> 3Amp Current rating
- 3> Life cycle 500,000 times
- 4> Gold plating to avoid chemical reaction of $Cu + O_2 + CO_2 + H_2O \rightarrow Cu_2(OH)_2CO_3$
- 5> RoHS complaint



3.4> Cable pogo pin connector

QH-M-F&M-RW-008

1. Electrical / 电气性能
 1.1 Current Rate / 电流 : 2A
 1.2 Contact Resistance / 接触电阻 : 50 m Ω

2. Environmental / 环境
 2.1 Operating temperature range / 工作温度 : -40 °C ~ 80 °C

3. Mechanical / 机械性能
 3.1 Working Stroke / 行程 : 0.8 mm
 3.2 Durability / 耐久性 : 10,000 cycles
 3.3 Spring force / 弹力 : 30 ~ 35 gf

4. Material / 材料
 4.1 Plunger / 针头 : Brass C3604, 3u" gold Plating
 4.2 Barrel / 针管 : Brass C3604, 3u" gold Plating
 4.3 Spring / 弹簧 : SUS304
 4.4 Magnet / 磁铁 : NdFeB, N52
 4.5 Housing / 塑胶 : PA46 + 30% glas

1. Electrical / 电气性能
 1.1 Current Rate / 电流 : 2A
 1.2 Contact Resistance / 接触电阻 : 50 m Ω

2. Environmental / 环境
 2.1 Operating temperature range / 工作温度 : -40 °C ~ 80 °C

3. Material / 材料
 3.1 Female pin / 母针 : Brass C3604, 3u" gold Plating
 3.2 Magnet / 磁铁 : NdFeB, N52
 3.3 Housing / 塑胶 : PA46 + 30% glass

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Name	Spec	Ver.	A0
Part No.	Material	Scale	1:1
Drawing No.	Surface	UOM	mm
	Drawing	Yang	Date
	Check	Cheung	Date
	Approve	Cai	Date

3.3> Magnetic Pogo Pin Connector

- 1> NdFeB
- 2> N52 , the best magnetic force
- 3> Ni Plating, 48 hours salt spray testing
- 4> Surface treatment to avoid chemical reaction of $Fe + H_2O + O_2 \rightarrow Fe(OH)_3$

- 1> Brass,C3604 with heavy gold plating , good for conductive
- 2> 3 Amp Current rating
- 3> Life cycle 500,000 times
- 4> Gold plating to avoid chemical reaction of $Cu + O_2 + CO_2 + H_2O \rightarrow Cu_2(OH)_2CO_3$
- 5> RoHS complaint

- 1> PA66+30%GF
- 2> Ok to work for re-flow oven within 265°C
- 3> RoHS, REACH compliant $Cu_2(OH)_2CO_3$

- 1> PA66+30%GF
- 2> Ok to work for re-flow oven within 265°C
- 3> RoHS, REACH compliant $Cu_2(OH)_2CO_3$

- 1> NdFeB
- 2> N52 , the best magnetic force
- 3> Ni Plating, 48 hours salt spray testing
- 4> Surface treatment to avoid chemical reaction of $Fe + H_2O + O_2 \rightarrow Fe(OH)_3$

- 1> Brass,C3604 with heavy gold plating , good for conductive
- 2> 3Amp Current rating
- 3> Life cycle 500,000 times
- 4> Gold plating to avoid chemical reaction of $Cu + O_2 + CO_2 + H_2O \rightarrow Cu_2(OH)_2CO_3$
- 5> RoHS complaint

