Customer:

QISDA

Attention

Your ref. No.: SBFR153-D61-GP

Your part No.: 2K.24013.A15

No.:

Date: 2015-1-6

Rev: X1

SPECIFICATION

Huajie's:

Description: 15 Pin Shot Body D-SUB

Product No.: SBFR153-D61-GP

RECEIPT STATUS
RECEIVED

By Date

Signature

Name
Title

Zhangjiagang Huajie Electronic Co.,Ltd.
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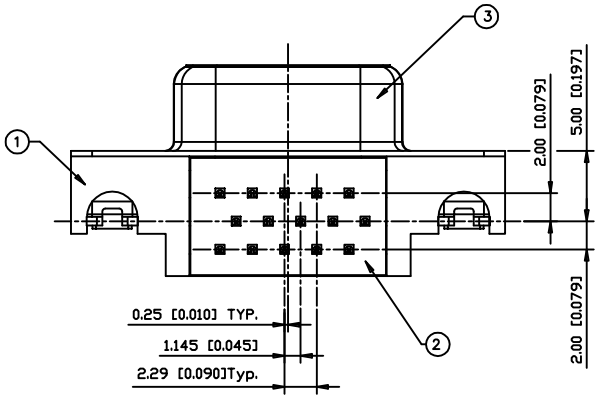
DSG'D GuoJian

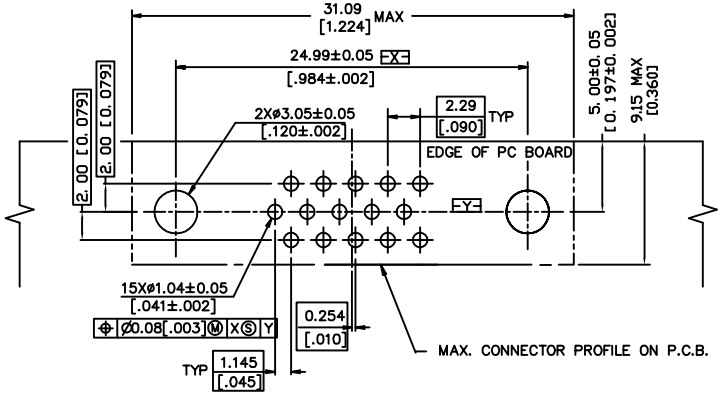
APP'D Wang Zhao

Sales'D Yafei Lu

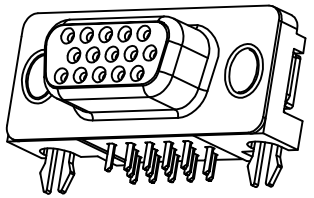
803-0000-061

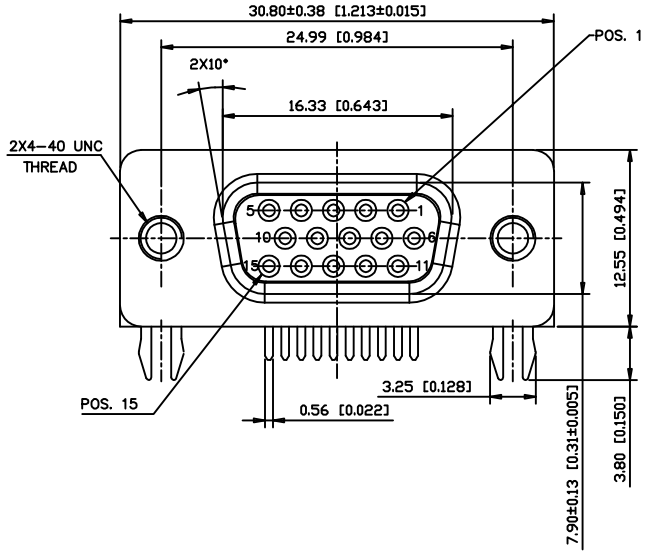
REV.	CHANGE NO.	SIGN	DATE
X/1			

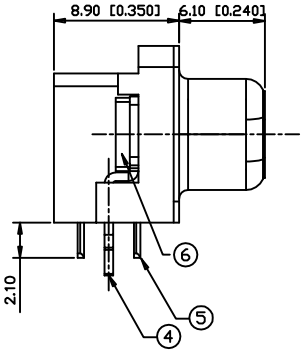


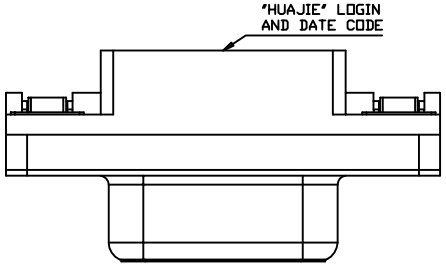


RECOMMENDED PCB LAYOUT
(COMPONENT SIDE SHOWN)









S B X X N N N - N N N - NN (HF 无卤)

- D-SUB 系列
- 产品类型: M=公产品. F=母产品.
- 安装类型: R=弯角型 V=直角型
- 端子数目.: 15=15 PCS.
- 电镀规格.: 1=1~3u" 3=3~5u"
- D=不带螺丝 S=锁螺丝 U=附螺丝
- 流水码
- 环保系列

ITEM	DESCRIPTION	Q'TY	MATERIAL	FINISH	REMARK
6	CLINCH NUT	2	BRASS	50u" MIN. NICKEL PLATED OVERALL;	
5	CONTACT	15	COPPER ALLOY	50u" MIN. NICKEL UNDERPLATED; GOLD FLASH PLATED AT CONTACT AREA; 100u" MIN. TIN PLATED AT SOLDER TAIL	
4	BOARD LOCK	2	SPCC	50u" MIN. NICKEL PLATED OVERALL; 80u" MIN. TIN PLATED OVER NICKEL	
3	METAL SHELL	1	SPCC	200u" MIN. NICKEL PLATED	
2	SPACER	1	THERMOPLASTIC UL 94V-0	MOLDED COLOR: BLUE	
1	HOUSING	1			

UNITS: MM[INCH]	
X. ±	X.° ±
.X ±0.35	.X° ±
.XX ± 0.25	.XX° ±
.XXX ± 0.15	.XXX° ±

DR:	
CHKD:	
STD:	
APPD:	

NAME(INTENDED USE)

CUSTOMER DRAWING FOR D-SUB

SUZHOU HUAZHIJIE ELECTRONIC CO.,LTD.

SHEET	SCALE
1/1	1:1

PRODUCT NO.
SBFR153-D61-GP

DRAWING NO.
803-0000-061

DATE	SIGN

FORMAT(1)

PRODUCT SPECIFICATION

Product Name:	15PIN D-SUB Connector	Part No:		SBFR153-D61-GP	
Drawing No:	803-0000-061	Revision	X1	Page	1/4

1. Scope

This specification applies to all the **15 pin D-SUB connector** manufactured by HUAJIE.

2. Construction

Based on the customer drawing of 15 **pin D-SUB connector** .

3. Appearance

There shall not be any defect such as deformity, exfolietion of plating etc which can reduce the performance.

No defect such as cracks, scratches and blemish etc.

4. Temperature Range

4.1 Operating temperature range:-25℃.~+105℃.

4.2 Storage temperature range: -30℃.~+75℃.

5. Rated

Rated voltage: 250V DC MAX **Rated current: 3A**

6.Test Condition

The test and measurement, unless otherwise specified, shall be the following condition:

Temperature: 15℃.~35℃. Relative Humidity: 25%~85%. Atmospheric Pressure: 86kPa~106kPa

However, when any doubt arise on the test data under it, the test should be carry out at the below condition:

Temperature: 20℃.±2℃. Relative Humidity: 60%~85%. Atmospheric Pressure: 86kPa~106kPa

7.Electrical Performance

No	Item	Test conditions	Performance
7.1	Insulation Resistance	EIA-364-21, Unmated 500V DC±50V applied between contact from shell and two closest adjacent contact of connector for 2minute±5 seconds	5000MΩ MIN
7.2	Dielectric Withstanding Voltage	EIA-364-20, Method A, 1000 V AC applied between the contact from shell and two closest adjacent contacts for 1minute±5 seconds	No flashover, No sparkover, No excess leakage, No breakdown
7.3	Low Level Contact Resistance	EIA-364-23 Measured with the applicable connector and plug with 1KHz milli-ohm meter	25m Ω Initial per contact mated pair 10 m Ω changed from original per mated pair

SUZHOU HUGELENT TELECOMUNICATIN CO. LTD.		CHECKED BY	Wang Zhao	TITLE	SPECIFICATION
DESIGNER	GuoJian	APPROVED BY	Wang Yi	DIM UNIT	

8.Mechanical Performance

	Item	Test conditions	Performance
8.1	Insertion Force of mated pair contact	EIA-364-13; peak force measured with the test gauge No.1 (figure type 1).	3.4 N max
8.2	Withdrawal Force of mated pair contact	EIA-364-13; peak force measured with the test gauge No.2 (figure type 2).	0.21 N min
8.3	Insertion Force of connector	EIA-364-13; peak force measured with the applicable plug	34 N max
8.4	Withdrawal Force of connector	EIA-364-13; peak force measured with the applicable plug	3.3 N min

9.Environment Performance

	Item	Test conditions	Performance
9.1	Life Test	EIA-364-09; Inserting and withdrawing 500 cycles at rate 250~300 cycles per hour	Item 8.2 shall be satisfied contact Resistance:50 m Ω max.
9.2	Vibration	EIA-364-28A; Condition 1 Vibrate randomly from 10Hz to 55 Hz to10Hz Amplitude: 1.5 mm Sweep Time: 5 minutes 1 cycles Electrical Load:100 mA Test period 2 hours for each of 3 mutually perpendicular planes (Total 6 hours)	No discontinuity great than 1 us
9.3	Shock Test	EIA-364-27B; Peak acceleration: 490 m/ S^2 Duration of pulse: 11 mS Electrical Load: 100 mA 6 shocks in each direction applied along three mutually perpendicular planes, 18 total shocks.	No discontinuity great than 1 us
9.4	Heat cycle test	EIA-364-32, condition 1, Repeated condition:-55℃ for 30 minutes and +85℃ for 30 minutes for 5 cycles. 5 minutes transition time between -55℃ and +85℃ (Temperature profile see figure 3).	Item 7.1 and 7.2 shall be satisfied Contact Resistance: 10 mΩ changed from original per mated pair

9.Environment Performance

	Item	Test conditions	Performance
9.5	Dry Heat test	Exposure to 70℃±2℃ for 500 hours then lay in the room temperature for 2 hours	Item 7.1 and 7.2 shall be satisfied Contact Resistance: 10 mΩ changed from original per mated pair
9.6	Cold test	Exposure to -40℃±3℃ for 500 hours then lay in the room temperature for 2 hours	
9.7	Humidity Test (Steady State)	Exposure to 40 ℃ ± 2 ℃ Relative humidity90%~95% for 500 hours then lay in the room temperature for 2 hours	
9.8	Salt Mist Test	After Salt mist test for 48 hours based on JIS C0023 and washing the samples with clean water, remove the water drops and lay the samples in room temperature for 2 hours.	No remarkable rust shall be observed Contact Resistance: 10 mΩ changed from original
9.9	Stress corrosion and Crack test	Based on the CES M0010-5; Temperature: 25~60 ℃;50~90RH; 0.01~500ppm NH3 for 72 hours;	There should not be crack.
9.10	Resistance to Solder Heat (solder bath)	After the sample is mounted on the 1.6mm thick Printed circuit board and it shall be soaked in the flux, Then dipped it into the solder bath at 260℃±5℃ for 10s±1s	Without harmful damage such as deformation of mold resin. Contact resistance: 30 mΩ
	Resistance to Solder Heat (solder iron)	Using the soldering iron and the cored solder wire; It is applied to the termination for 3±0.5 s at 400 ± 5 ℃.	
9.11	Solder ability	The samples shall be soaked in the flux for 4± 1 second then be dipped into the solder bath for 3± 0.5 second.. Solder: Sn –3.0 Ag-0.5 Cu ; Temp: 240± 5 ℃; Depth of immersion: 2.2 mm ± 0.5 mm;	A new uniform coating of solder shall be covered 95% min of the surface being immersed.
9.12	Soldering Force	Soldering each of the Tin-Lead sample and lead free sample on the P.C board, then explosion them into the following environmental condition for 200 cycles. Solder with Lead: Sn-37 Pb Temperature: 240± 2 ℃ Time 2~5 seconds Solder without Lead: Sn –3.0 Ag-0.5 Cu Temperature: 250± 2 ℃ Time 2~5 seconds	Decline in solder force is within 50% after soldering of Tin; Lead free is more than 75% compare with Tin-Lead solder.

10.Test gauge figure

10.1 Test Gauge No.1 (figure type 1)

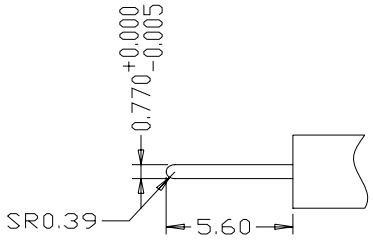


Figure type 1

10.2 Test Gauge No.2 (figure type 2)

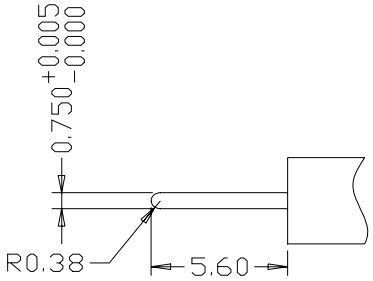


Figure type 2

10.3 Temperature profile (figure 3)

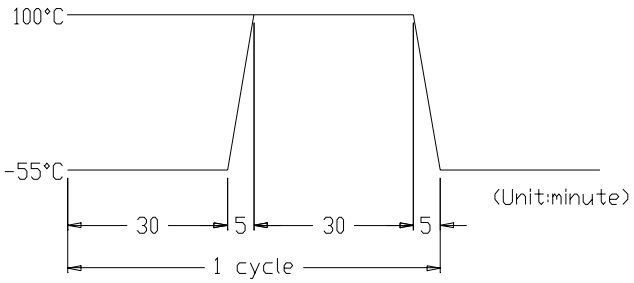


Figure 3

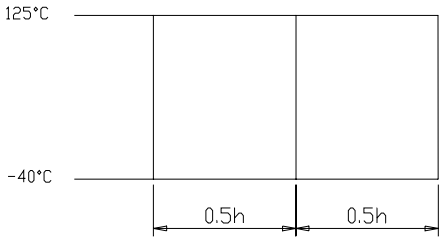


Figure 4

11.Package: Tray (Detailed see the package specification)

苏州华之杰电讯有限公司

包装规范

产品料号	SBFR15*-***-**	工站名称	产品包装	规范编号	DSP-DSB-102	版次	X/1	页次	1/3

*操作条件

1. 确认产品的品质良好.
2. 确认包装盘的品质良好.

*操作步骤：

1. 按图1所示，成品TALL朝下，把产品放在包装盘中，每盘100PCS装满后再叠放另一盘，一直到叠加满15盘。

2. 每15盘为一小批，用带子将一叠包盘（15盘成品）扎紧捆在一起。

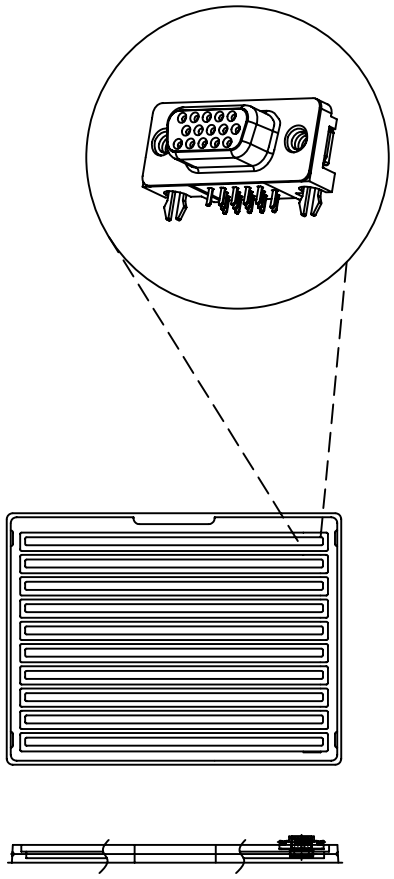
*使用材料：

1. 080-0001-008 包装盘
2. 塑胶带

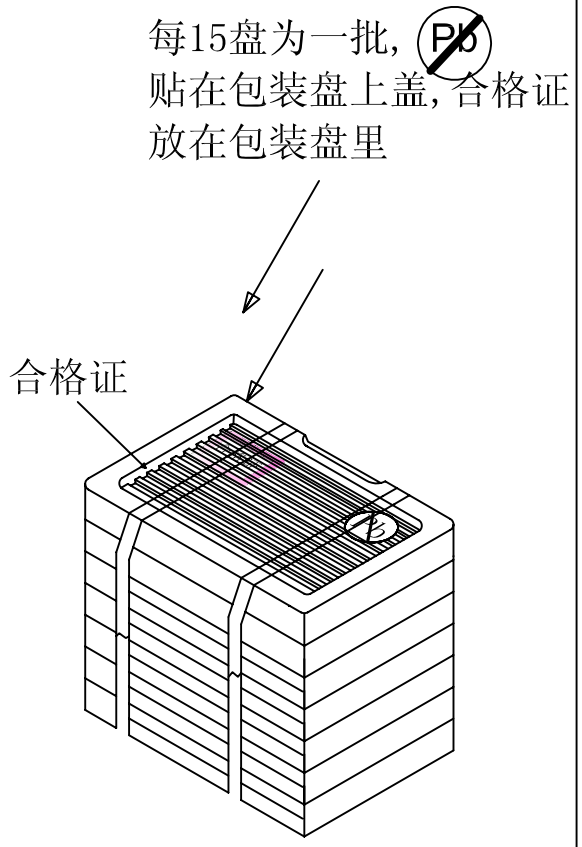
*注意事项：

1. 最上盘的左上角放入合格证，确认合格证上的产品料号和产品数量。
2. 最上盘的右上角放入 Pb 标签。
3. 上述规范完成后，方可包装。

*图示：



步骤1



步骤2

核准		审核		拟制	

苏州华之杰电讯有限公司

包装规范

产品料号	SBFR15*-***-**	工站名称	纸箱包装	规范编号	DSP-DSB-102	版次	X/1	页次	2/3

*操作条件

1. 确认产品的品质良好.
2. 确认纸箱的品质良好.

*操作步骤：

1. 按图1所示，把整叠产品放入纸箱里,放入若干袋干燥剂 .

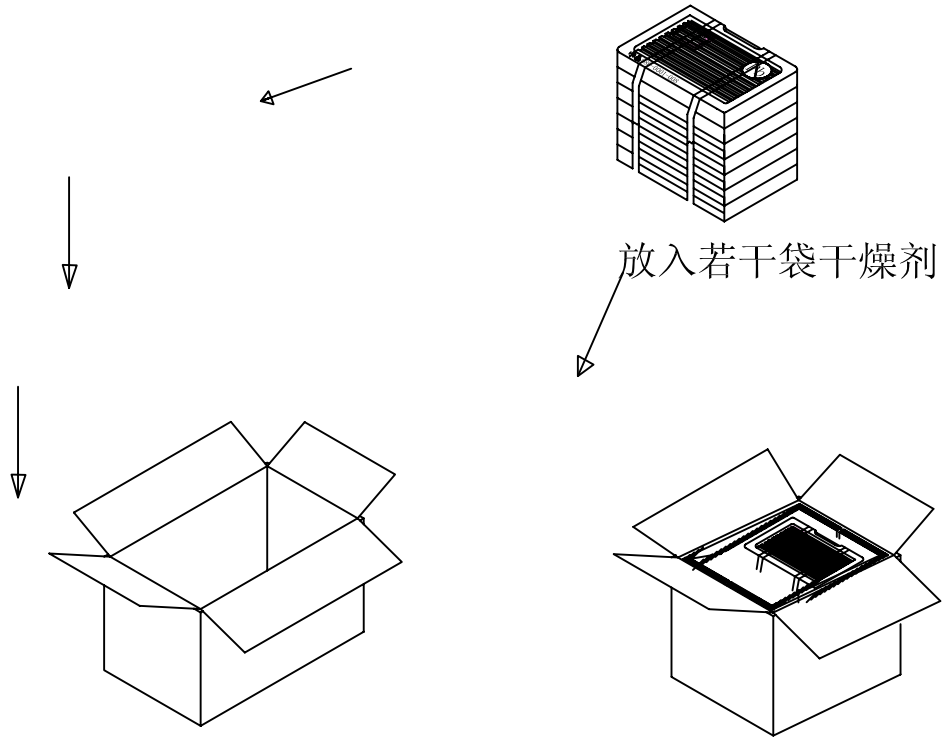
*使用材料：

1. 080-0430-121纸箱1pcs
2. 干燥剂若干袋

*注意事项：

1. 产品如果有附螺丝放在两叠产品中间,不需要放隔板.
2. 上述规范完成后，方可包装。

*图示：



步骤1　　步骤2

核准		审核		拟制	

苏州华之杰电讯有限公司

包装规范

产品料号	SBFR15*-***-**	工站名称	封箱包装	规范编号	DSP-DSB-102	版次	X/1	页次	3/3

*操作条件

1. 确认产品的品质良好.
2. 确认纸箱的品质良好.

*操作步骤：

1. 按图1所示，在封箱之前确认箱子里的产品数量, 合格证, PB标签. 然后用塑胶带把箱子封装好.
2. 按图2所示, 在箱子的外侧贴上合格证, 条形码, 贴上PB标签.

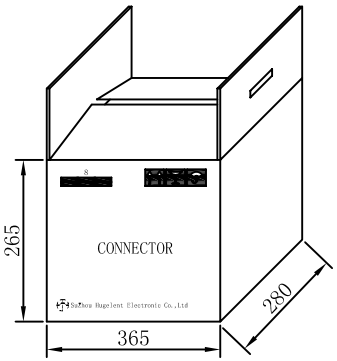
*使用材料：

1. 胶带

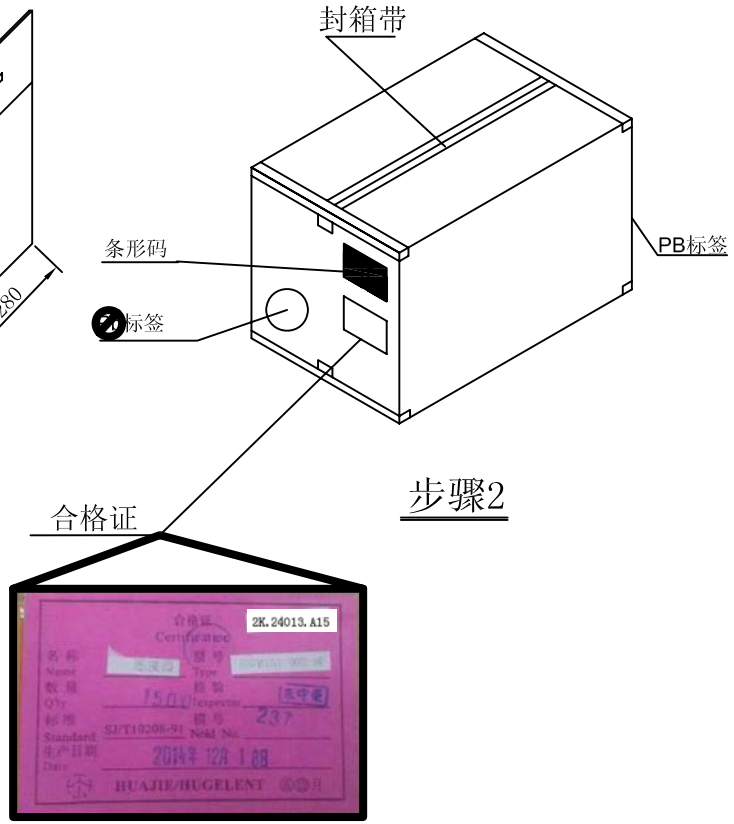
*注意事项：

1. 产品如有附螺丝放在两叠产品中间, 不需要放隔板.
2. 上述规范完成后，方可包装。

*图示：



步骤1



步骤2

核准		审核		拟制	

SBFR153-D61-GP MATERIAL LIST

ITEM	DESCRIPTION	MATERIAL	UL	COLOR	MATERIAL MAKER	Q'TY	PLATING	PLATING MARKER
1	HOUSING	PBT	UL94-V0	BLUE	南通东方 东翔塑胶	1	/	/
2	SPACER					1	/	/
3	CONTACT	C2680	/	/	中铝	1	GOLD PLATED	青台
4	METAL SHELL	SPCC	/	/	宝钢	1	NICKEL PLATED	青台
5	BOARD LOCK	SPCC	/	/	宝钢	1	TIN PLATED	青台
6	NUT	C3604	/	/	常乐		NICKEL PLATED	青台

APPROVED:WangYi REVIEWED:WANG ZHAO PREPARED:GRAY HUANG