	Product Specification	DOC. No.: 651-13045-01	Rev.: A	Page: 1/7
	PART No.:	Approved/Date	Checked/Date	Made/Date
	818013045	Tan 07/02/18	Peng 07/02/18	Qian 07/02/18

## 1、SCOPE

The product described is a Antenna RF Spring connector, which is used to connect between the Antenna and the PCB .

## 2、PRODUCT DESCRIPTION

### 2.1 Product name and Product number

Product name: Antenna RF Spring, SMT, Au Plating, L2.70\*W1.10\*H1.75mm .  
Product number: 818013045

### 2.2 Dimension, material, plating and marking

See the appropriate Customer Drawings for information on dimensions, materials, plating, and markings.

## 3、TECHNICAL PARAMETERS

3.1 Rated current: 2A

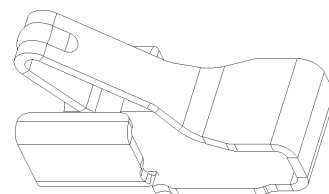
3.2 Rated voltage: 10V DC

3.3 Temperature rise vs current: 30°C maximum

3.4 Temperature:

Operating : -40°C ~ +85°C

Storage : -40°C ~ +85



## 4、PERFORMANCE

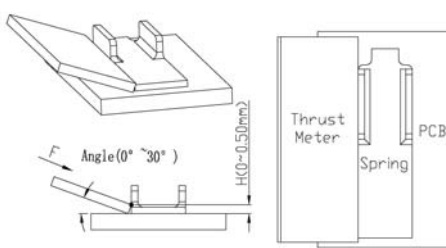
### 4.1 Appearance Requirements

Item	Description	Test Condition	Requirement
4.1.1	Visual and dimension inspections	Visual, dimension and functional per applicable quality inspection plan.	Meets requirements of product drawing. No physical damage.

### 4.2 Electrical Requirements

Item	Description	Test Condition	Requirement
4.2.1	Contact Resistance (Low Level)	Mated connector: apply a maximum voltage of 20mV and a current of 100mA. Per EIA-364-23B	The initial: 50 mΩ Max; ΔR=30 mΩ Max changed after environmental exposure

### 4.3 Mechanical Requirements

Item	Description	Test Condition	Requirement
4.3.1	Normal Force at Working height	Press the Contact Point Till the contact point at Working height, Per EIA-364-09B	0.70N Min. on Contact Point 0.70N Min. on Contact Point after 100 cycles test
4.3.2	Durability	Press and Replace are repeated 100 cycles with connector at the speed rate of 450~550 cycles/hour, Per EIA-364-09B	Appearance: no damage Contact Resistance $\Delta R=10\text{ m}\Omega$ maximum
4.3.3	Vibration	Peak acceleration: 10G Frequency: 20~1000Hz Amplitude : 1.52mm inspected 12 cycles per axis (total 36 cycles) of full frequency range in 60 minutes /cycle with suitable connector	Appearance: no damage Contact Resistance $\Delta R=10\text{ m}\Omega$ maximum No electrical shut down more than 1 $\mu$ s
4.3.4	Mechanical Shock	Peak value of acceleration: 490m/s <sup>2</sup> Duration : 11ms Wave form : half sinusoidal Directions, cycle : 6 mutually perpendicular direction, 3 cycles about each direction	Appearance: no damage Contact Resistance $\Delta R=10\text{ m}\Omega$ maximum No electrical shut down more than 1 $\mu$ s
4.3.5	peeling off strength	Push the spring away from the PCB pad: 	20N Min.



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#### 4.4 Environmental Requirements

Item	Description	Test Condition	Requirement
4.4.1	High relative Humidity exposure	Mated and exposure to the condition of 25~65℃ ,90~95% RH, (7 days). Recovery time 1~2hours. Per EIA-364-31	Appearance: no damage Contact Resistance $\Delta R=30\text{ m}\Omega$ maximum
4.4.2	Thermal shock	The connector shell be mated and exposure to the following condition for 10 cycles continuous. a) -55℃ for 30 minutes. b) 85℃ for 30 minutes. Transit time shall be within 5minutes, recovery time 1~2 hours. Per EIA-364-32	Appearance: no damage Contact Resistance $\Delta R=30\text{ m}\Omega$ maximum
4.4.3	Solder ability	Dip solder tails into the molten solder at 255±5℃ for 5±0.5 sec.	Solder coverage: 95% Minimum
4.4.4	Resistance to soldering Reflow Heat	Infrared the reflow condition of 5.1	No damage after 3 times of reflow Measurement after 24±2 hours



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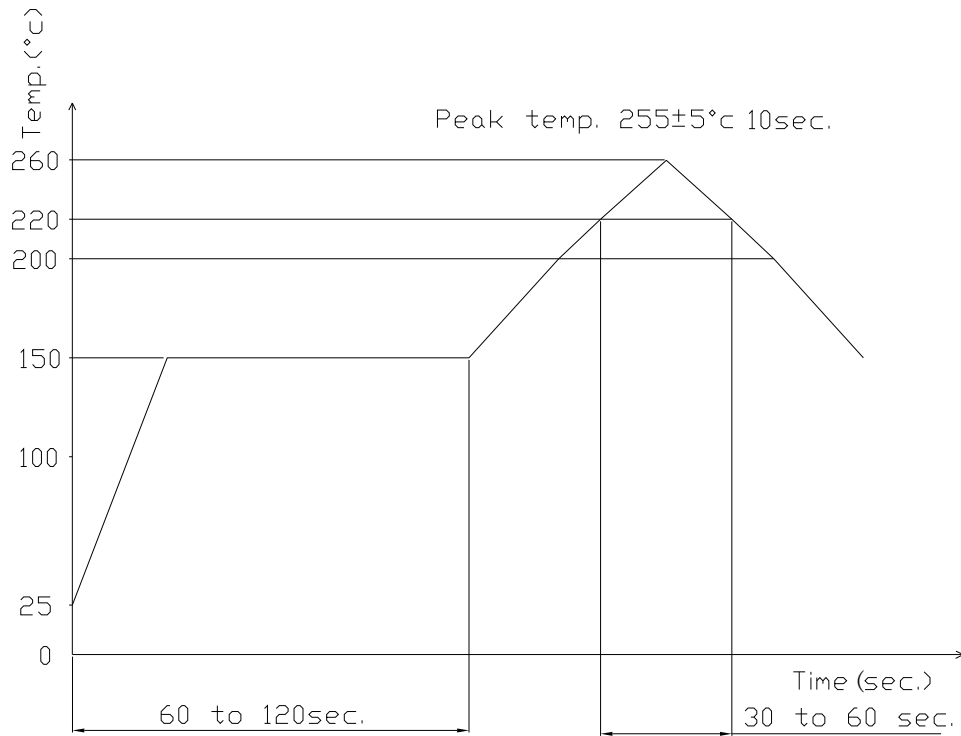
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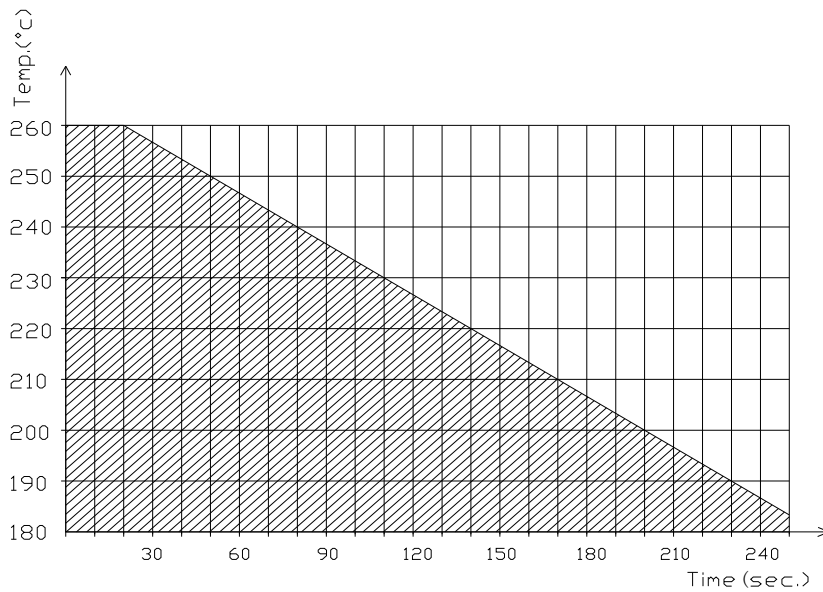
Qian  
07/0218

5、SMT TEMPERATURE CURVE

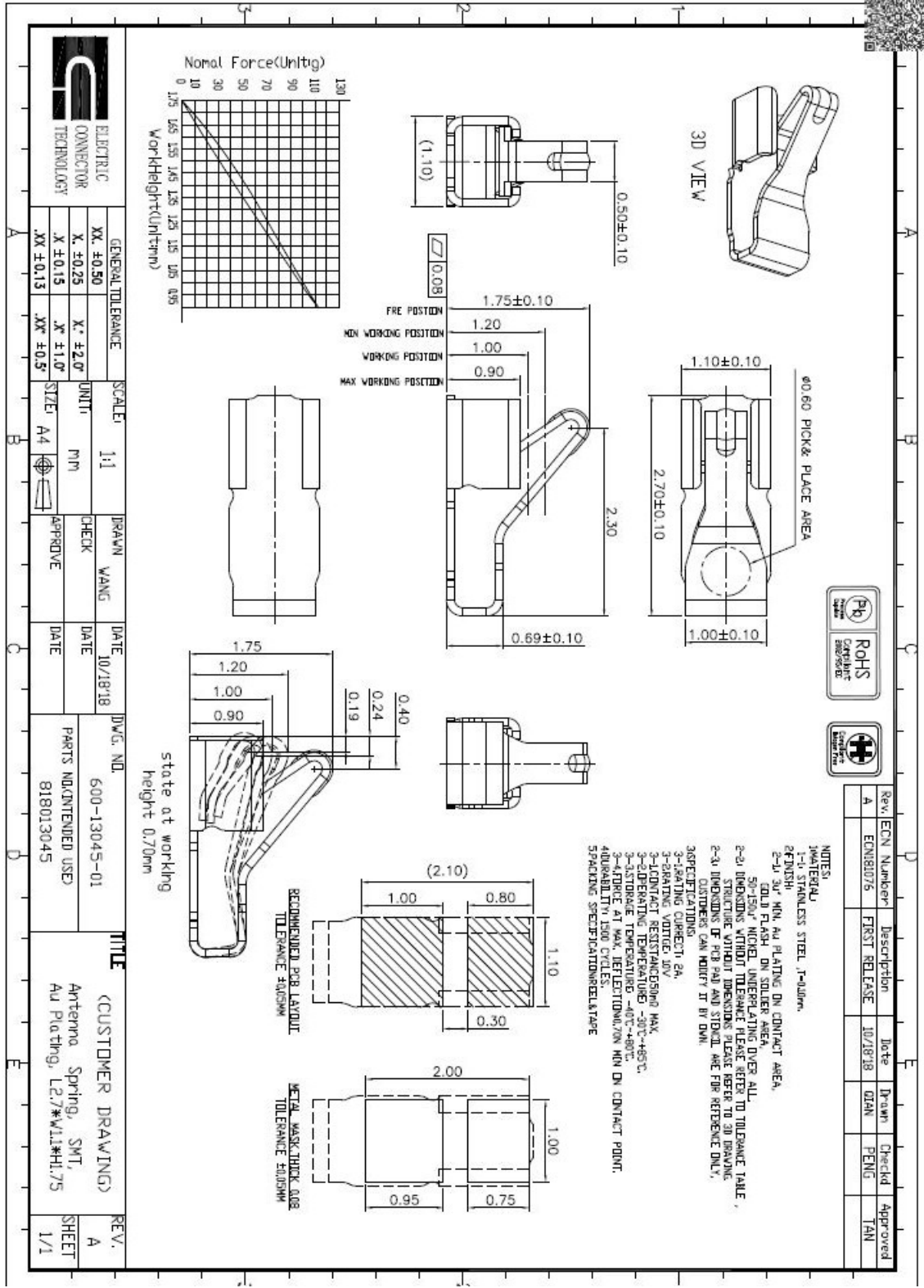
5.1 Recommended TEM.&Time relative curve of RE-FLOW.



5.2 Extremed TEM.&Time curve of RE-FLOW.



6、PROFILE DIMENSIONS



7、PACKAGING SPEC.

GENERAL TOLERANCE

XX ±0.50	X ±0.35	.X ±0.25	.XX ±0.15
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SCALE: 1:1

UNIT: MM

SIZE: A4

DRAWN: Qian

CHECK: APPROVE

DATE: 07/02/18

DWG. NO. 551-13045-01

PARTS NOT/INTENDED USE: 818013045

TITLE: 包规图

Antenna, RF Spring, SMT, Au Plating, L2.7\*W1.8\*H1.45

REV. A

SHEET 1/1

收料方向

包装机

小号透明胶袋 (内径7mm)

胶袋

4个三角纸版

上下各1块珍珠棉

封箱胶

出货标签

包装作业标签

产品合格标签

环保标签 (依客户要求之标签格式)

客户使用方向

热封三刀

前44PCS空格

8000PCS

后44PCS空格

上部20MM 间距

3D VIEW

直径33.0mm

上部

胶带

4.00

4.00

1.75

5.50

W=12

管制重点:

- 1.包装对产品轻柔搬运,避免产品变形.
- 2.搬运与堆放后,检查是否有漏装,产品的放置方向是否正确.
- 3.包装板面断裂时不可用人工连接.
- 4.检查是否有产品被压死,检查数据层数是否正确.
- 5.若有未装漏之零件,须以缓冲材料塞满.
- 6.防水袋封口须密封.
- 7.装箱封好后,检查标签是否贴好,干净,字迹清晰,标签内容是否正确,光滑.
- 8.外纸箱: 尺寸为L340\*W340\*H315mm

项目	料号	数量	产品包装容量	产品包装重量
外纸箱	840000602	1	9000	18
塑胶网盘	604050046	18	144000	0.0061
防水袋	840000501	1		0.8727
胶带	7313045001			
上部	840000318	4		
三角纸版				
作业标签		19		
珍珠棉				
透明胶带		2		

Rev/ECN Number	Description	Date	Drawn	Checked	Approved
A	ECN181075 首发发行	07/02/18	Qian	Peng	Tan



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