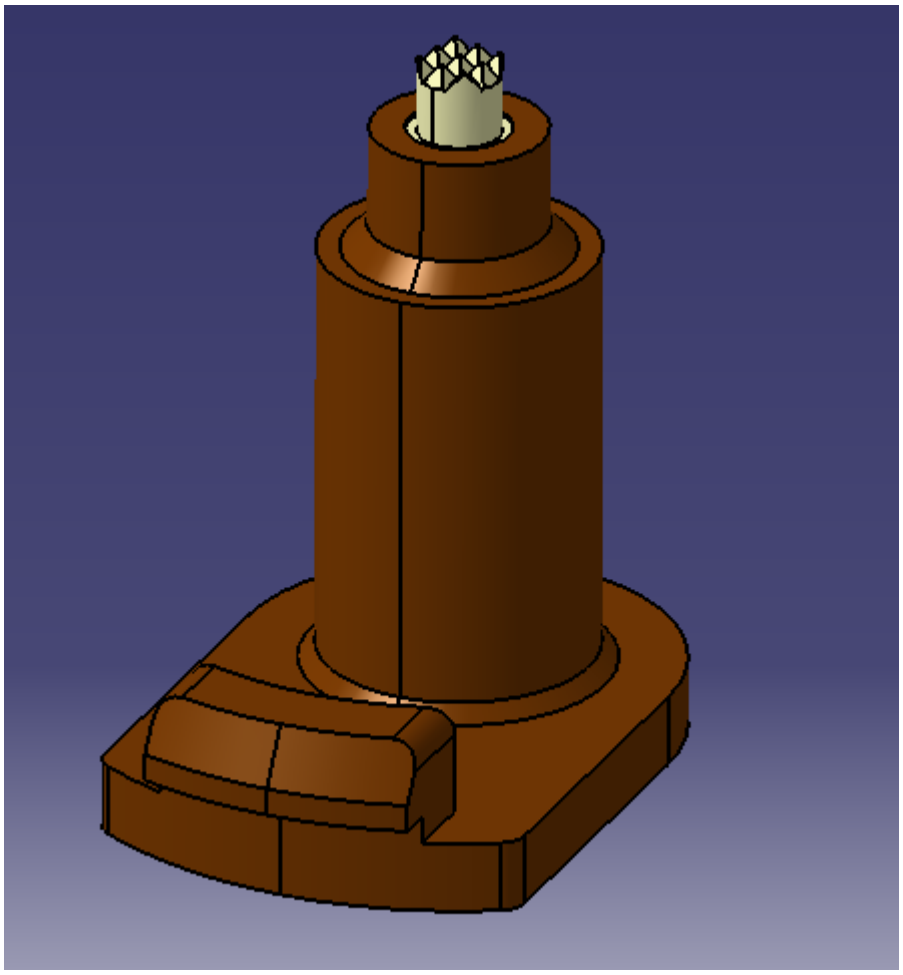
PRODUCT SPECIFICATION



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REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	BTC10 SERIES	SHEET No
C	EC No: DATE:	RD-T150037 2015/03/06	PRODUCT NAME	1 PIN POGO PIN WITH HOUSING	1 of 4

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
PS-BC-0092	TOM	JERRY	KIMI.HSU

PRODUCT SPECIFICATION

1.0 SCOPE

This specification defines the related performance of the 1 PIN POGO PIN connector.

2.0 PRODUCT DESCRIPTION

This Pogo-Pin consists of one contact pin , one spring, and a housing, For materials, plating see below Product Name: **BTC10 Series**

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

See product drawing (according to the newest revised edition) and other sections of this specification for the relevant reference documents and specifications. In cases where the specification differs from the product drawings, the product drawings take precedence.

4.0 RATINGS

4.1	Rated Current (per contact)	2 Amp Max.
4.2	Rated Voltage	12 V DC RMS .
4.3	Operating temperature range	-40°C~ +85°C .

5.0 ELECTRICAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
5.1	**Contact Resistance**	Mate connector with circuit of 20mV, 100mA Max. Measured from pin side to shaft side, deflection 11.92 mm Working HEIGHT . EIA-364-23B	[Contact Resistance]: 50 mΩ maximum
5.2	**Contact Current Rating**	The connector temperature and test current shall be measured and recorded. ANSI/EIA-364-70	[Temperature rise]: 30℃ Max.

6.0 MECHANICAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
6.1	**Durability**	Mate and un-mate contacts at a rate of 10～20 cycles/hr to 10,000 cycles. Deflection: 11.92 mm Working HEIGHT. EIA-364-09C	[Contact Resistance]: 50mΩ Maximum,
6.2	**Normal Force**	Test speed of 25 mm/minute. Measure normal force at contact point, Deflection: 11.92mm Working HEIGHT from housin. EIA-364-04	[Normal force]: 150gf Min
6.3	**Vibration**	Subject mated connectors to 10-500 Hz traversed in 1minutes at 1.52mm amplitude for 2 Hour each of 3 mutually perpendicular planes.98.1 m/s^2 EIA 364-28D	discontinuity is never more than 1μsec. [Contact Resistance]: 50 mΩ maximum
6.4	**Mechanical Shock**	50G's Half-sine shock pulse for 6ms, 3 shock each X, Y, Z axes, total 18shocks EIA-364-27C	discontinuity is never more than 1μsec. [Contact Resistance]: 50 mΩ maximum
6.5	**Fully compression**	compress connector to 0mm from housing by hand for 10sec	[Appearance]: no damage

7.0 ENVIRONMENTAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
7.1	**High Temperature Exposure**	Simulate mated situation samples at +85°C for 48 hours 1hours recovery time EIA 364-17B	[Appearance]: no damage [Contact Resistance]: 50 mΩ maximum
7.2	**Low Temperature Exposure**	Simulate mated situation samples at -40°C for 48 hours 1hours recovery time EIA 364-59	[Appearance]: no damage [Contact Resistance]: 50 mΩ maximum
7.3	**Humidity**	Test mated connector in chamber and expose to a temperature of 40 ± 2°C with a relative humidity of 90% - 95%RH for 96 hours. Note: Remove surface moisture and air dry for 1 hour prior to measurements. EIA 364-31B	[Appearance]: no damage [Contact Resistance]: 50 mΩ maximum

7.4	**Salt Spray Test**	Duration: 48 hours exposure; Atmosphere:salt spray from a 5% solution. Temperature: 35 +1/-2°C EIA 364-26B	[Appearance]: no damage. [Contact Resistance]: 50 mΩ maximum
7.5	**Thermal Shock**	Place free situation samples in chamber with 10 cycles, and one duration is -55℃/(0.5h)➔ 25℃/(5minutes Max.) ➔85℃/(0.5h) ➔25℃/(5minutes Max.). EIA-364-32C	[Appearance]: no damage. [Contact Resistance]: 50 mΩ maximum
7.6	**Hand Soldering**	The terminal tested shall be heated to 2 millimeters from a tip of the terminal by a soldering iron to have capacity of 60 watts consumption.	At a temperature controlled of 350℃± 10℃ for a period of 3± 0.5 seconds.

8.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

9.0 TEST GROUP

Test Group										
Test Items	**Test Sequence**									
	A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**
Contact Resistance	*1,5*	*1,4*	*1,4*	*1,4*	*1,4*	*1,4*	*1,4*	*1,4*		
Contact Current Rating										*1*
Durability	*3*									
Normal Force	*2,6*									
Vibration		*2*								
Mechanical Shock			*2*							
Fully compression	*4*	*3*	*3*	*3*	*3*	*3*	*3*	*3*		
High Temperature Exposure				*2*						
Low Temperature Exposure					*2*					
Humidity						*2*				
Salt Spray Test							*2*			
Thermal Shock								*2*		
Hand Soldering									*1*	
Sample(Pcs)	3	3	3	3	3	3	3	3	3	1

C

AcRon 文件制訂、修訂、廢止申請單

RD-PS-A-001->16　　BTC 10

文件編號	PS-BC-0092	文件名稱	spec		
申請部門	工程部	申請人		日 期	03/06'15
制訂單位	工程部	制訂人		日 期	03/06'15

☐ 制訂
☑ 修訂
☐ 廢止

原因說明

RD-T150037.

取消絕緣阻抗耐電壓.

相關單位審查

Queena　Jeff 3/6'15

核准

Simi 3/6'15