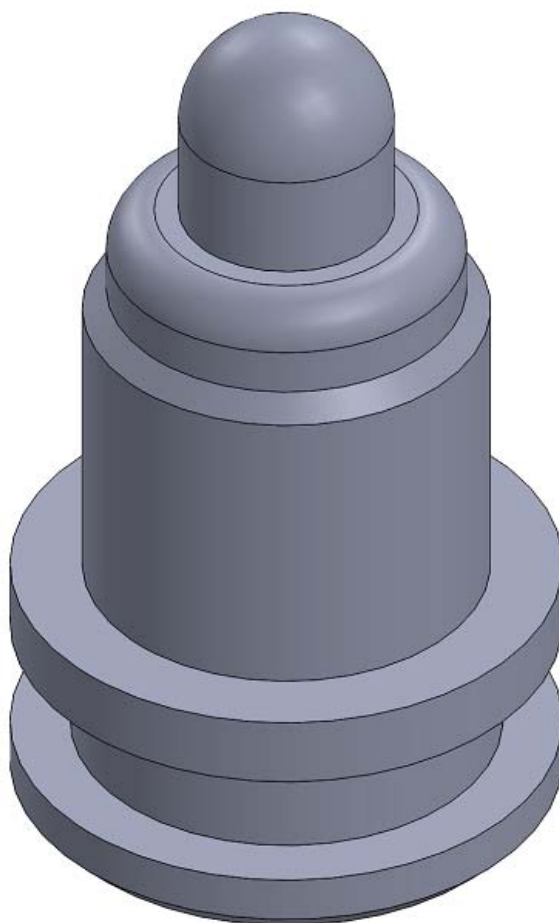




PRODUCT SPECIFICATION



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(NUCONN)

REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	BTC23 SERIES	SHEET No
D	EC No:	RD-T150144	PRODUCT NAME	1 Pin Pogo Pin	1 of 4
	DATE:	2015/11/24			
DOCUMENT NUMBER:		CREATED / REVISED BY:		CHECKED BY:	APPROVED BY:
PS-BC-0098		TOM		JERRY.TUNG	KIMI.HSU



PRODUCT SPECIFICATION

1.0 SCOPE

This specification defines the related performance of the 1 Pin Pogo Pin.

2.0 PRODUCT DESCRIPTION

This Pogo Pin consists of one contact pin, one spring, one solder pads for materials, plating see below Product Name: **BTC23 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)	1.5 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	Examination of Product	Meets requirements of product drawing. No physical damage.	Specimens shall be investigated by 10x (or higher) microscope.
5.2	Contact Resistance	Mate connector with circuit of 20mV, 100mA Max. Measured from pin side to shaft side, deflection 3.3mm Working Height EIA 364-23	30 mΩ Max.(Initial)
5.3	Current Rating	Apply the rated current to connector, EIA 364-70	Temperature rise: 30°C Max.

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6.0 MECHANICAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
6.1	Durability	Operation Speed: 10~20cycles/minute. Durability Cycles: 5000 Cycles EIA 364-09C	[Contact Resistance]: 30mΩMaximum,
6.2	Normal Force	Measure normal force at contact point, deflection 3.2mm Working Height EIA-364-04	[Normal force]: 75g 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	<1μs discontinuity
6.4	Mechanical Shock	Accelerate Velocity: 490m/ s ² (50G) Waveform: 11ms Half-sine shock Velocity Change: 3.4m/s No. of Drops: 3 drops each to normal and reversed directions of X,Y and Z axes, totally 18 drops, passing 1mA current during the test. EIA 364-27B	<1μs discontinuity
6.5	Fully compression	compress connector to Working height by hand for 10sec	[Appearance]: no damage

7.0 ENVIRONMENTAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
7.1	Humidity	Mate connectors: expose to a temperature of 40±2°C with a relative humidity of 90~95% for 96hours Note: Remove surface moisture and air dry 48 hours prior to measurements. EIA 364-31B	[Appearance]: no damage [Contact Resistance]: 30 mΩ maximum
7.2	Low Temperature Exposure	48 hours at -40°C 1hours recovery time EIA 364-59	[Appearance]: no damage [Contact resistance]: 30 mΩ maximum
7.3	High Temperature Exposure	48 hours at +85°C Less than 25% relative humidity 1hours recovery time EIA 364-17B	[Appearance]: no damage [Contact resistance]: 30 mΩ maximum
7.4	Thermal Shock	Place free situation samples in chamber with 10 cycles, and one duration is -40°C/(0.5h)→ 25°C/(5minutes Max.) →85°C/(0.5h) →25°C/(5minutes Max.). EIA-364-32C	[Appearance]: no damage. [Contact Resistance]: 30 mΩ maximum

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PRODUCT SPECIFICATION

7.5	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.
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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
Examination of Product	1,5	1,7	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Contact Resistance	2,4	2,6	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4
Current Rating	3									
Durability		4								
Normal Force		3,5								
Vibration			3							
Mechanical Shock				3						
Fully compression					3					
Humidity						3				
Low Temperature Exposure							3			
High Temperature Exposure								3		
Thermal Shock									3	
Salt Spray Test										3
Sample(Pcs)	3	3	3	3	3	3	3	3	3	3

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文件制訂、修訂、廢止申請單

RD-PS-A-001-227

文件編號	PS-BC-0098	文件名稱	BTC-3 Series 規格書		
申請部門	業務部	申請人	Tiara	日期	11/5/15
制訂單位	工程部	制訂人	Jerry	日期	11/5/15
<input type="checkbox"/> 制訂 <input checked="" type="checkbox"/> 修訂 <input type="checkbox"/> 廢止原因說明	ECN No. RD-Tr50144 1. 修改 工件高度 3.2mm				
相關單位審查	Andela 11/5/15 Tiam Jef 11/4/15				
核准	Dinni 11/4/15				