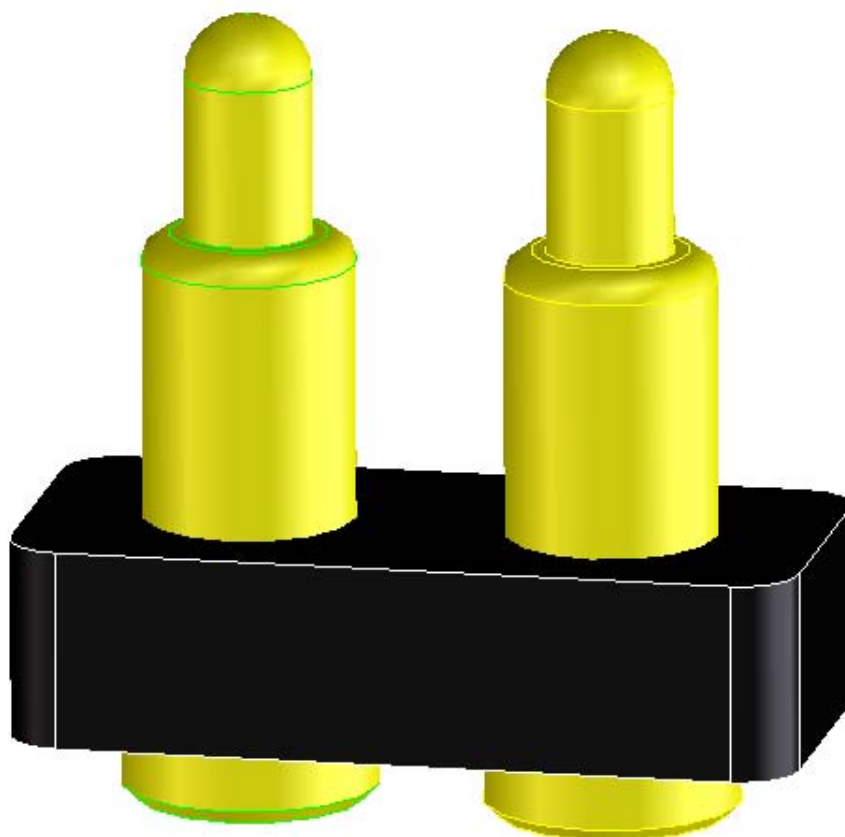




PRODUCT SPECIFICATION

Acron 文管中心
2021/09/29
發行章



育鼎精密工業股份有限公司
ACRON PRECISION INDUSTRIAL CO., LTD

桃園縣八德市廣德里新興路 55 號

No.55, SinSing Road., Bade City, Taoyuan County 334, Taiwan(R.O.C)

TEL : 886-3-3629889 FAX : 886-3-3664917

□東莞睦永電子有限公司
(AMMI)

■東莞育鼎電子有限公司
(ACRON)

□東莞愷興電子科技電子有限公司
(NUCONN)

REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	BTC50 SERIES	SHEET No
B	EC No:	RD-T21042	PRODUCT NAME	2 PIN Pogo pin Connector, PITCH=2.54mm	1 of 4
	DATE:	2021/09/28			
DOCUMENT NUMBER:		CREATED / REVISED BY:		CHECKED BY:	APPROVED BY:
PS-BC-0107		TIM		ANDELEE	KIMI.HSU



PRODUCT SPECIFICATION

1.0 SCOPE

This specification defines the related performance of the 2 Pin Pogo Pin Connector.

2.0 PRODUCT DESCRIPTION

This Pogo-Pin consists of two contact pins, two springs, two solder pads, and a housing, a Cap For materials, plating see below Product Name: **BTC50 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 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 at 4.85mm working height. Per EIA-364-23	[Contact Resistance]: 30 mΩ maximum (initial)
5.2	Insulation Resistance	Apply a voltage of 500 VDC between adjacent terminals and between terminals to ground for 1 minute. EIA-364-21	500 Mega ohms minimum
5.3	Dielectric Withstanding Voltage	Apply 500 VAC for 1 minute between adjacent terminals of an unmated connector. EIA-364-20	No breakdown

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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/minute to 10,000 Cycles at 4.85mm working height.	[Contact Resistance]: 100mΩ Maximum
6.2	Normal Force	Measure normal force at contact point, at 4.85mm working height.	[Normal force]: 0.6N+/-0.15N
6.3	Vibration	Mated connectors shall be subjected during test. 10-55-10HZ sine sweep Amplitude:1.52mm 2 hours in each of three mutually Perpendicular directions Refer to EIA-364-28	[Appearance]: During test, signal discontinuity is never more than 1μsec. [Contact Resistance]: 100 mΩ maximum
6.4	Mechanical Shock	Mated connectors shall be subjected during test. 50G / 11ms half-sine wave shock 3 shocks in each direction. Total of 6 directions. Total of 18 shocks. Refer to EIA-364-46	[Appearance]: During test, signal discontinuity is never more than 1μsec. [Contact Resistance]: 100 mΩ maximum
6.5	Fully compression	Compress pogo pin to Max. compression by hand for 10 sec.	[Appearance]: no damage

7.0 ENVIRONMENTAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
7.1	Heat Resistance	Temperature: 85℃ Duration time: 48 hours	[Appearance]: no damage [Contact Resistance]: 100 mΩ maximum
7.2	Cold Resistance	Temperature: -40℃ Duration time: 48 hours	[Appearance]: no damage [Contact Resistance]: 100 mΩ maximum
7.3	Thermal Shock	Test Condition 1: -40/ 30 minutes 85 / 30 minutes Test Condition 2: -40/ 1.5 hours 85 / 1.5 hours Warranty cycle: Test Condition 1: 32 cycles Or Test Condition 2: 10 cycles	[Appearance]: no damage [Contact Resistance]: 100 mΩ maximum

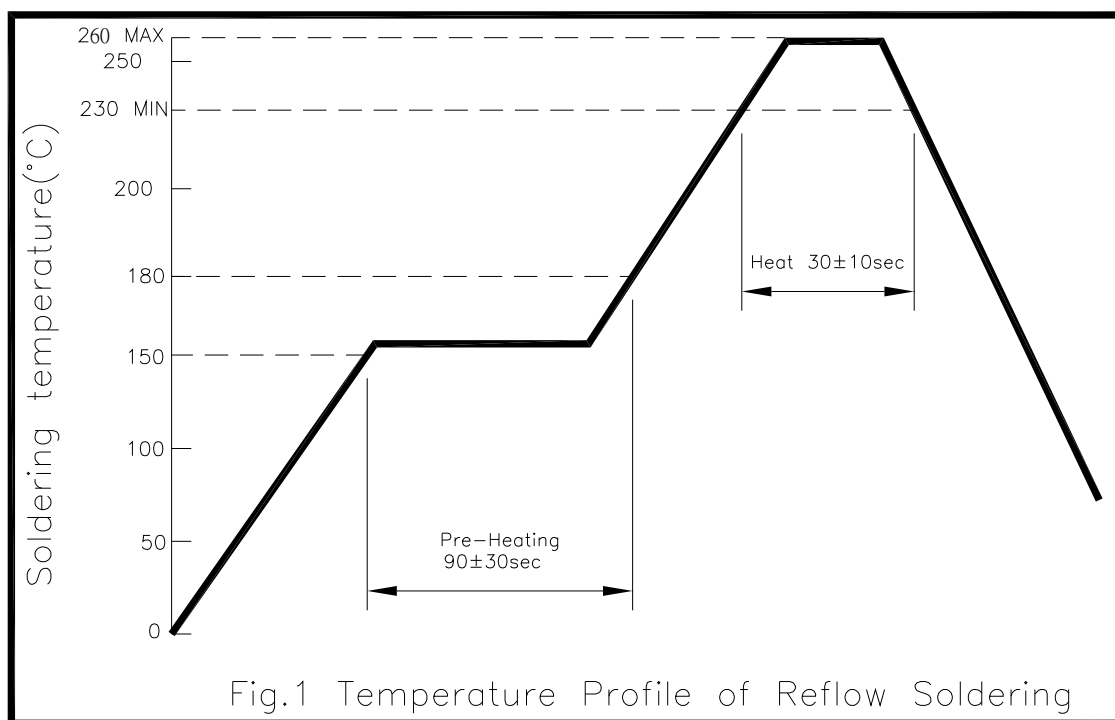
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7.4	Temperature and Humidity	Temperature: 70°C ± 2 Humidity: 90%RH Duration time: 240 hours	[Appearance]: no damage [Contact Resistance]: 100 mΩ maximum
7.5	Salt Spray Test	Per EIA-364-26 condition A 48 hours	[Appearance]: no damage. [Contact Resistance]: 100 mΩ maximum
7.6	Solder ability	Dip solder tails into the molten solder(held at 245±5°C for 3 ±0.5 sec EIA 364-52	[Appearance]: Solder coverage: 95% MINIMUM
7.7	Solder Heat Resistance	Place connector o applicable P.C.B footprint and float on solder bath at 260±5 °C for 10±2 seconds. EIA 364-56; Refer to Fig.1	[Appearance]: No Damage to insulator material

8.0 PACKAGING


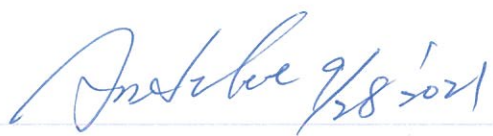

Parts shall be packaged to protect against damage during handling, transit and storage.

9.0 RECOMMENDED REFLOW PROFILE



REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	BTC50 SERIES	SHEET No
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AdRoN 文件制訂、修訂、廢止申請單

文件編號	PS-BC-0107	文件名稱	BTC50 SERIES		
申請部門	工程	申請人	Tim	日期	2021/09/28
制訂單位	工程	制訂人	Tim	日期	2021/09/28
<input type="checkbox"/> 制訂 <input checked="" type="checkbox"/> 修訂 <input type="checkbox"/> 廢止原因說明	ECR : RC-T21042 66578-A4-132601 原規格書更新為 BTC50 SERIES				
相關單位審查	<div> <div>  </div> <div>  </div> </div> <div>  </div>				
核准	