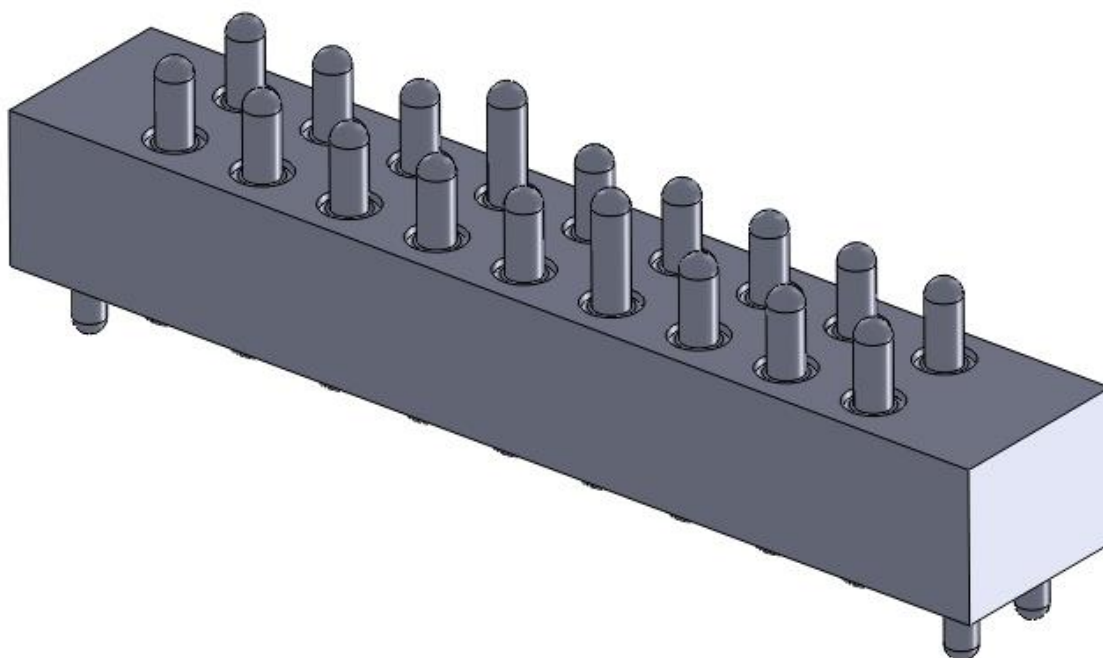




PRODUCT SPECIFICATION

Acron 文管中心
2021/09/29
發行章



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(NUCONN)

REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	BTC49 SERIES	SHEET No
B	EC No:	RC-T21041	PRODUCT NAME	18 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-0081		TIM		ANDELEE	KIMI.HSU



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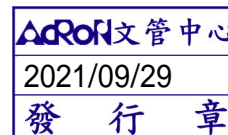
1.0 SCOPE

This specification defines the related performance of the **18 PIN POGO PIN** connector.

2.0 PRODUCT DESCRIPTION

This Pogo-Pin consists of eighteen contact pins , eighteen springs, eighteen solder pads,a cap and a housing, For materials, plating see below Product Name:

1. BTC49 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	5 V RMS .
4.3	Operating temperature range	-40° C~ +85° C .
4.4	Dielectric Withstanding Voltage	500V AC

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 1.5 mm. Per EIA-364-23	30 mΩ maximum
		Mate connector with circuit of 20mV, 100mA Max. Measured from pin4 and pin15 side to shaft side, deflection 2.3 mm. Per EIA-364-23	100 mΩ maximum
5.2	Insulation Resistance	Unmate & mate connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground for 1 minute. EIA-364-21	100 Mega ohms MINIMUM

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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 unmate contacts at a rate of 10~20 cycles/minute to 40,000 cycles. Deflection: 1.50 mm . Per EIA-364-09	[Contact Resistance]: 50mΩ Maximum,
		Mate and unmate contacts at a rate of 10~20 cycles/minute to 40,000 cycles. Deflection: 2.30 mm . Per EIA-364-09	[Contact Resistance]: 150mΩ Maximum,
6.2	Normal Force	Measure normal force at contact point , Deflection: 1.50mm,	[Normal force]: 50g Max.
		Measure normal force at contact point , Deflection: 2.30mm,	[Normal force]: 50g Max.

Test Ref.	Item	Test Condition	Requirements
6.3	Vibration(sine)	10-55-10HZ sine sweep Amplitude: 1.52mm 2 hours in each of three mutually Perpendicular directions (per EIA-364-28 Test I)	<1 μs discontinuity
6.4	Vibration(random)	EIA-364-28 Test V Letter A 15 minutes/axis	<1 μs discontinuity
6.5	Mechanical Shock	50G's Half-sine shock pulse for 6ms, 3 shock each X, Y, Z axes, total 18shocks Per EIA-364-27 condition C	<1 μs discontinuity

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7.0 ENVIRONMENTAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
7.1	High Relative Humidity Exposure	Mate connectors: expose to a temperature of $42\pm 2^{\circ}\text{C}$ with a relative humidity of 90~95% for 48 hours Note: Remove surface moisture and air dry 48 hours prior to measurements. Per EIA-364-31	[Appearance]: no damage [Contact Resistance]: 100 mΩ maximum
7.2	Low Temperature Exposure	48 hours at -40°C 1 hours recovery time	[Appearance]: no damage [Contact resistance]: 100 mΩ maximum
7.3	High Temperature Exposure	48 hours at $+85^{\circ}\text{C}$ Less than 25% relative humidity 1 hours recovery time	[Appearance]: no damage [Contact resistance]: 100 mΩ maximum
7.4	Salt Spray Test	Per EIA-364-26 condition A 48 hours	[Appearance]: no damage.
7.5	Solderability Test	Solder temperature: $260\pm 5^{\circ}\text{C}$, Solder time: 3~5 seconds.	[Solder coverage]: 95% Min.
7.6	Resistance to reflow soldering heat .	See applicable IR test curve.	[Appearance]: no damage .

8.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.
The weight of a product is 1.596g

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