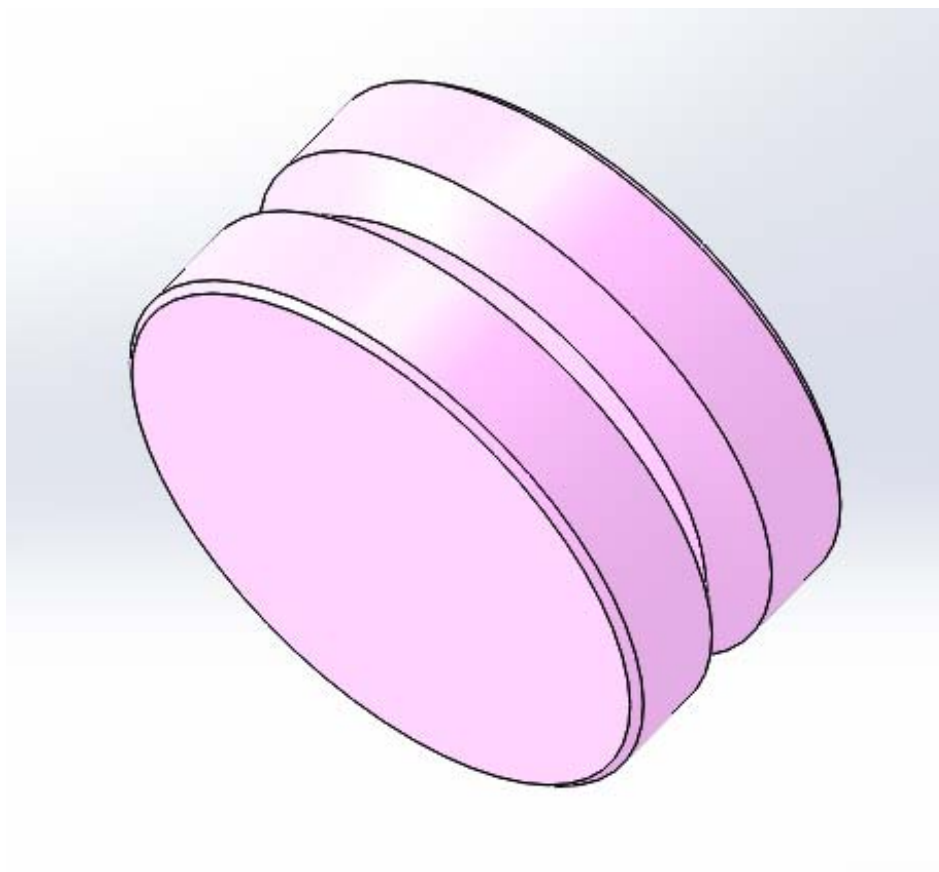




PRODUCT SPECIFICATION



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(NUCONN)

REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	BTC09 Series	SHEET No
E	EC No:	RD-140528	PRODUCT NAME	1 Pin Cylinder	1 of 5
	DATE:	2014/12/09			
DOCUMENT NUMBER:		CREATED / REVISED BY:		CHECKED BY:	APPROVED BY:
PS-BC-0089		TOM		JERRY.TUNG	KIMI.HSU



PRODUCT SPECIFICATION

1.0 SCOPE

This specification defines the related performance of the 1 pin cylinder.

2.0 PRODUCT DESCRIPTION

This cylinder consists of one cylinder, plating see below Product Name: **BTC09 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)	0.5 Amp Max.
4.2	Rated Voltage	12 V DC RMS .
4.3	Operating temperature range	-40° C~ +85° C .

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5.0 ELECTRICAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
5.1	Contact Resistance (LLCR)	Mate connector with circuit of 20mV, 100mA Max. Measured from contact side to solder side, Per EIA-364-23	20mΩ maximum (Initial) (For Material impedance)

6.0 ENVIRONMENTAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
6.1	Operating Static Humidity	Mate connector shall be subjected during test. Temperature: 60°C ± 2 Humidity: 95%RH Duration time: 240 hours Note: Remove surface moisture and air dry for 1 hour prior to measurements. Sample quantity: 4 EIA 364-31	[Appearance]: no damage
6.2	Non-Operating Static Humidity	Temperature: 70°C ± 2 Humidity: 90%RH Duration time: 240 hours Note: Remove surface moisture and air dry for 1 hour prior to measurements. Sample quantity: 4 EIA 364-31	[Appearance]: no damage
6.3	Non-Operating Thermal Shock	Mate connector shall be subjected during test. Test Condition 1: -40°C / 30 minutes ~ 85°C / 30 minutes Test Condition 2: -40°C / 1.5 hours ~85°C / 1.5 hours Warranty cycle: Test Condition 1: 32 cycles Test Condition 2: 10 cycles. Sample quantity: 4 EIA-364-32	[Appearance]: no damage

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6.4	Operating Heat Resistance	Mate connector shall be subjected during test. Temperature: 70°C Duration time: 240 hours Sample quantity: 4 EIA 364-17	[Appearance]: no damage
6.5	Non-Operating Heat Resistance	Temperature: 85°C Duration time: 240 hours Sample quantity: 4 EIA 364-17	[Appearance]: no damage
6.6	Operating Cold Resistance	Mate connector shall be subjected during test. Temperature: -20°C Duration time: 240 hours Sample quantity: 4 EIA 364-17	[Appearance]: no damage
6.7	Non-Operating Cold Resistance	Mate connector shall be subjected during test. Temperature: -40°C Duration time: 240 hours Sample quantity: 4 EIA 364-17	[Appearance]: no damage
6.8	Salt Spray	Concentration: 5±1% Spray time: 72 hours Temperature: 35 +1/-2°C Sample quantity: 4 EIA 364-26	[Appearance]: no damage [Contact Resistance]: △R: 20 milliohms Max (change from initial ; For Material impedance)
6.9	Solder Heat Resistance	Reflow Solder method: Peak : 250+5/-0°C Solder Zone : 230°C Min. , 30~40sec. Solder iron method: Solder Temperature: 350±5°C Immersion time: 5±0.5sec. However, excessive pressure shall not be applied to the terminal. Sample quantity: 4 EIA 364-52; Refer to Fig.1	[Appearance]: no damage

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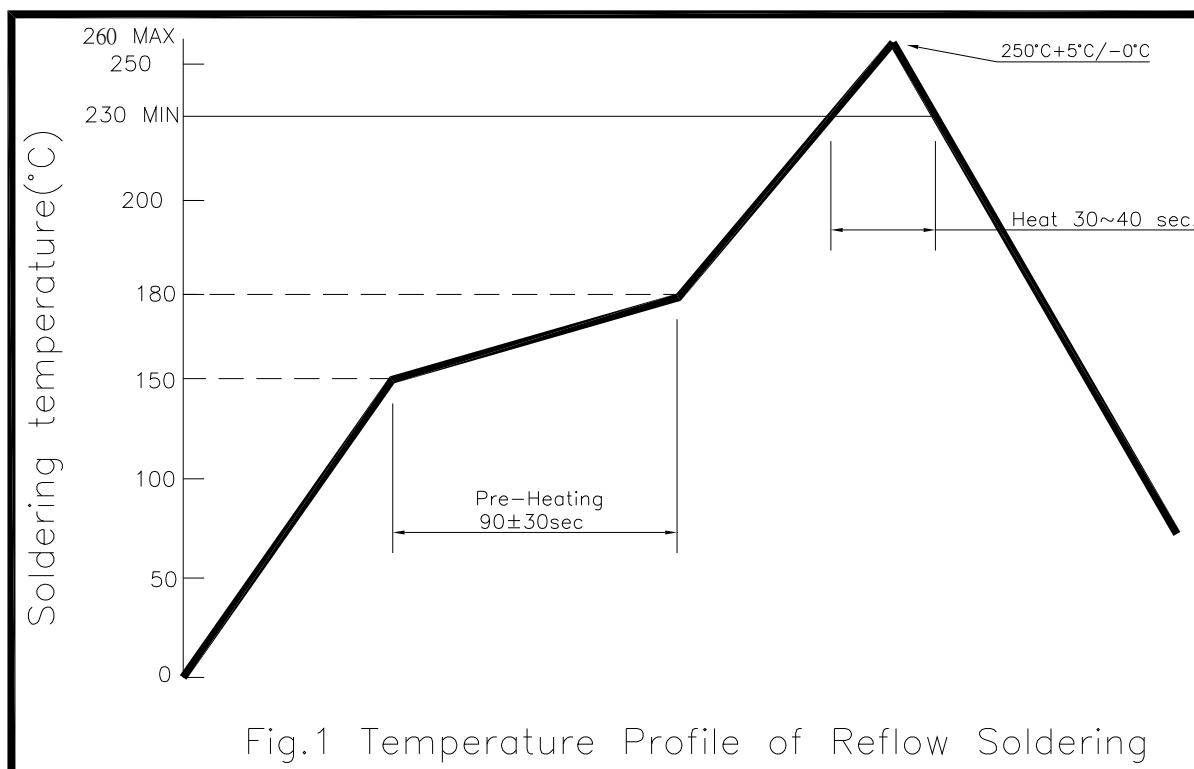
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6.10	Solder ability	Dip solder tails into the molten solder (held at $245\pm5^{\circ}\text{C}$ for 3 ± 0.5 sec. Sample quantity: 4 EIA 364-52	[Appearance]: Solder coverage: 95% Minimum
6.11	H2S gas	Mate connector shall be subjected during test The connector shall be stored to 3 ± 1 ppm H2S gas , ambient temperature $40\pm2^{\circ}\text{C}$ and relative humidity 75~ 80%RH for 24hours. After test, place room situation for 60 minutes. Sample quantity: 4	[Appearance]: no damage

7.0 PACKAGING

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

8.0 RECOMMENDED REFLOW PROFILE



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