

## SPECIFICATION AND PERFORMANCE

<b>Series</b>	303C-C4515-40-02-1	<b>File</b>	303C-C4515-40-02-1_SPEC_2.1	<b>Date</b>	2020/05/29
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### Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 303C-C4515-40-02-1

### Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

### RoHS:

All material in according with the RoHS environment related substances list controlled.

MATERIALS		
NO.	PART NAME	DESCRIPTION
1	Machine Pin	Brass C3604, 3u" min. gold plating over 50-120u" min. nickel plating
2	Housing	Nylon PA46, UL94V-0, Black
3	Magnet	N52, $\Phi 3 \times 4.0$ , 200u" min. nickel plating, 3600 $\pm$ 10% GS
RATING		
Rated Voltage	5V	
Rated Current	2A	
Operating Temperature	-30°C to +85°C	
Storage Temperature	-30°C to +85°C	

ELECTRICAL		
Item	Requirement	Test Condition
Contact Resistance	50m $\Omega$ Max	Voltage drop system four-wire system with below 300mA EIA-364 23
Dielectric Withstanding	No breakdown at 500VDC	EIA 364-20

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Voltage	/1minute	
Insulation Resistance	100MΩ Min. at 500VDC /2 minute	EIA 364-21

<b>MECHANICAL</b>		
<b>Item</b>	<b>Requirement</b>	<b>Test Condition</b>
Pin Strength	No appearance damage	Apply 9.8N static load on the plunger in direction for 1 minute.
Pin Pulling Off Force	No appearance damage	Apply 4.9N static load on the pin in axis direction for 1 minute.

<b>ENVIRONMENTAL</b>		
<b>Item</b>	<b>Requirement</b>	<b>Test Condition</b>
Humidity (Steady state)	Meets requirements of product drawing and electrical specification.	EIA-364-31B method II Condition A
Salt spray	Meets requirements of product drawing and electrical specification.	Temperature : 35±2°C Density of salt water : 5±1% Duration : 4 hours ± 15min.
Cold resistance	Meets requirements of product drawing and electrical specification.	The connector housing shall be store at temperature of -30±3°C for 48 hours
Dry heat	Meets requirements of product drawing and electrical specification.	The connector housing shall be store at temperature of 85±2°C for 96 hours
IP degree of protection	IPX7	IEC 60529 Sample condition: mated Put the testing sample under water 1m, duration 30 minutes

<b>SOLDER ABILITY</b>		
<b>Item</b>	<b>Requirement</b>	<b>Test Condition</b>
Solder ability	The test area shall be covered more than 95% of immersed area with flash solder	Solder Temperature: 245±5°C Immersion Period: 5sec
Resistance to soldering heat	1. Without deformation of case or excessive loosen. 2. Electrical characteristics shall be satisfied	Lace the connector on the P.C. Board, then immerse the solder pin up to the surface of the board in the solder bath at 245°C±5°C for 10 Sec. or 260°C±5°C for 5 Sec.