

SPECIFICATION AND PERFORMANCE

Series	303C-C4515-40-02-1	File	303C-C4515-40-02-1_SPEC_2.2	Date	2024/11/28
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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 Ω 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

MECHANICAL		
Item	Requirement	Test Condition
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.

ENVIRONMENTAL		
Item	Requirement	Test Condition
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

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SOLDER ABILITY		
Item	Requirement	Test Condition
Hand Soldering	Without deformation of case or excessive loosen.	Solder Temperature: 260±20°C Time: 3 sec

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