



SPECIFICATION AND PERFORMANCE

SERIES:
101D Series

FILE:
101D_spec

DATE:
2015/05/12

Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 101D CF Slim Series.

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.

MATERIAL AND FINISH

INSULATOR	Material	Housing: LCP UL 94V-0 Beige
	Plating	Contact Area: Gold Flash Solder Area: Tin Plating
CONTACT	Material	Contact: Brass C2680
	Plating	Contact Area: Gold Flash Solder Area: Tin Plating
SHELL OR COVER	Material	Holddown: Brass C2680
	Plating	Solder Area: Tin Plating
RATING	Current Rating: 0.5A Voltage Rating: 100V Operating temperature : -40°C to +85°C Storage temperature : -40°C to +85°C	

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ELECTRICAL		
Item	Requirement	Test Condition
Insulation Resistance	1000MΩ	Mate connectors, apply 500V DC between adjacent terminal and ground.
Contact Resistance	40mΩ Max	Mate connectors measure by dry circuit, 20mV max, 10m A.
Dielectric Strength	No Breakdown	Mate connectors, apply 500V ac for 1 min between adjacent terminal or ground

MECHANICAL		
Item	Requirement	Test Condition
Insertion Force	28.8N Max	Insert connectors at the speed rate of 25±3 mm/min.
Extraction Force	4.9N Max / 24.5N Min	Retention connectors at the speed rate of 25±3 mm/min.
Contact Retention	9.8N MIN. (1.0Kgf)	Apply axial pullout force at 25±3 mm/min on the assembly in the housing.
Durability	10000cycle	When mated up to 10000 cycles repeatedly by the rate of 400-600 cycles per hour.

ENVIRONMENTAL		
Item	Requirement	Test Condition
Temperature Load	30°C max	Carry rated current load.
Heat Resistance	Appearance: No damage Contact Resistance: Δ20mΩ change	90±3°C, 96 hours.

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Cold Resistance	Appearance: No damage Contact Resistance: $\Delta 20\text{m}\Omega$ change	$-55^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 96 hours.
Temperature Cycling	Appearance: No damage Contact resistance: $\Delta 20\text{ m}\Omega$ change	5 cycles (1) -55°C 30 min. (2) $+90^{\circ}\text{C}$ 30 min.
Salt Spray	Appearance: No damage Contact resistance: $\Delta 20\text{ m}\Omega$ max out.	48 ± 4 hr exposure to a salt spray from the $5 \pm 1\%$ solution at $35 \pm 2^{\circ}\text{C}$

SOLDER ABILITY

Item	Requirement	Test Condition
Solder ability	95% min	Solder time: 3 ± 0.5 sec Solder temperature: $230 \pm 5^{\circ}\text{C}$
Resistance to Soldering Heat	No damage	Immerse test sample into molten solder ($260 \pm 5^{\circ}\text{C}$) to 1.2mm from the datum line. The dwell time shall be 5 ± 0.5 sec. After 30 sec interval, immerse the sample into solder ($260 \pm 5^{\circ}\text{C}$) for 3 ± 0.5 sec.

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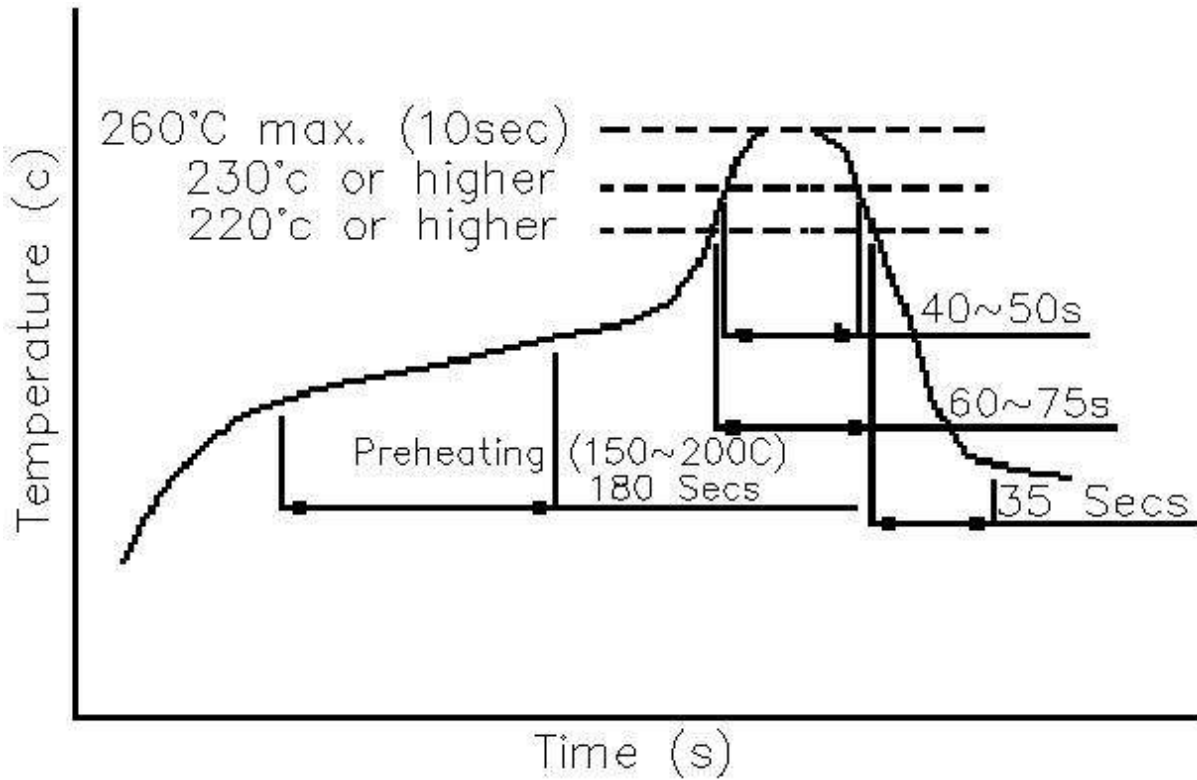
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