

SPECIFICATION AND PERFORMANCE

Series	304C-4025XX	File	304C-4025XX_SPEC_1	Date	2020-06-09
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Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 304C-4025XX

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	Housing	LCP UL94V-0, black
2	Terminal	Phosphor bronze, 5u"Gold on contact area, G/F on solder tails, 50u" Min. nickel under plated overall.
3	Latch	Brass, tin 50u" Min. over nickel 50u" Min. under-plated overall.

RATING

Rated Voltage	12V DC/1minute
Rated Current	3.5A Max./Pin
Operating Temperature	-40°C to +105°C
Storage Temperature	-40°C to +105°C
Durability	5,000 Cycles

ELECTRICAL

Item	Requirement	Test Condition
Contact Resistance	40mΩ Max. After Test 60mΩ Max.	EIA-364-23C
Insulation Resistance	1000MΩ Min. at 500V DC/2 min.	EIA-364-21E
Dielectric Withstanding Voltage	No breakdown at 500V RMS	EIA-364-20E



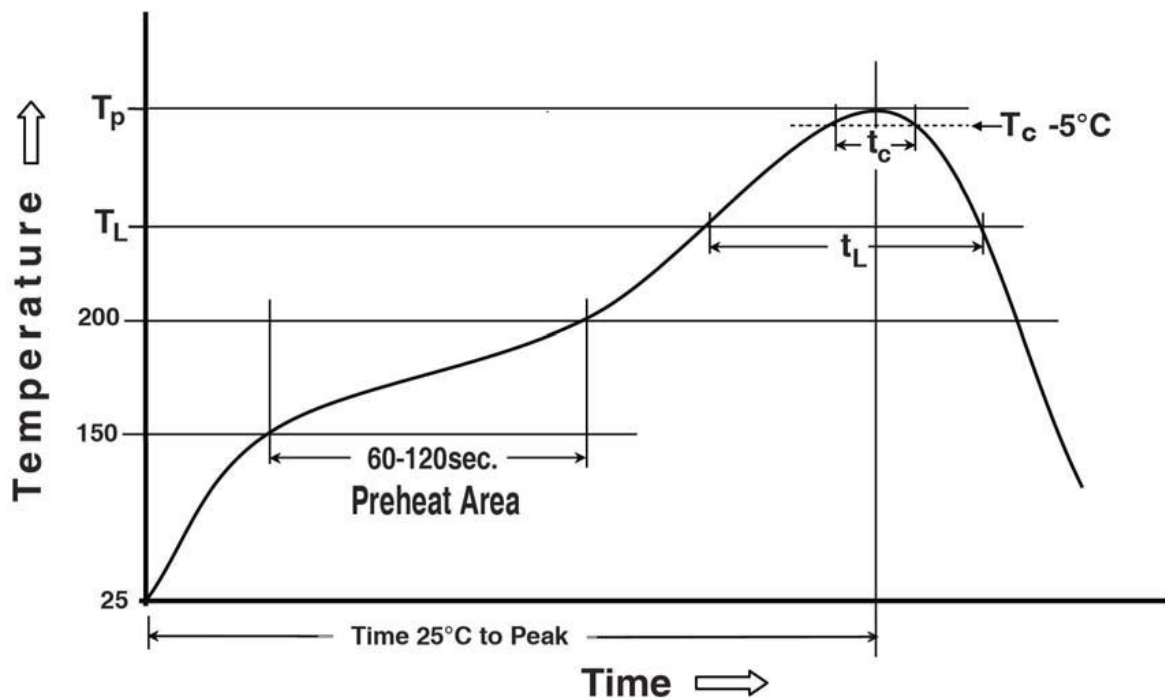
MECHANICAL		
Item	Requirement	Test Condition
Durability	5000 Cycles	EIA-364-09C
Push Force	200gf Max. /Pin(Stroke: 1.0mm)	Speed 25±3mm/minute
Contact Retention Force	300gf Min./Pin	EIA-364-29C

ENVIRONMENTAL		
Item	Requirement	Test Condition
Humidity	Meets requirements of product drawing and electrical specification.	EIA-364-31C method II condition A
Salt spray	Meets requirements of product drawing and electrical specification.	Temperature: 35°C±2°C Density of salt water: 5±1% Period: 4hours
Low Temperature	Meets requirements of product drawing and electrical specification.	The connector housing shall be store at temperature of -40±3°C for 48hours
Dry heat	Meets requirements of product drawing and electrical specification.	The connector housing shall be store at temperature of 105±2°C for 96hours EIA-364-17C



SOLDER ABILITY		
Item	Requirement	Test Condition
Solderability	The test area shall be covered more than 95% of immersed area with flash solder	Solder Temperature: 245°C±5°C Immersion Period: 3±0.5sec.

Reflow Profile



Preheating temperature: 150 ~ 200°C, 60~120 seconds

Liquidus temperature (T_L): 217°C, 60~150 seconds

Peak temperature: 260°C

Time within 5 °C of peak temperature (T_c): 255°C, 30seconds