

## SPECIFICATION AND PERFORMANCE

Series	304C-6525XX	File	304C-6525XX_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-6525XX

### 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	2.0 A 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

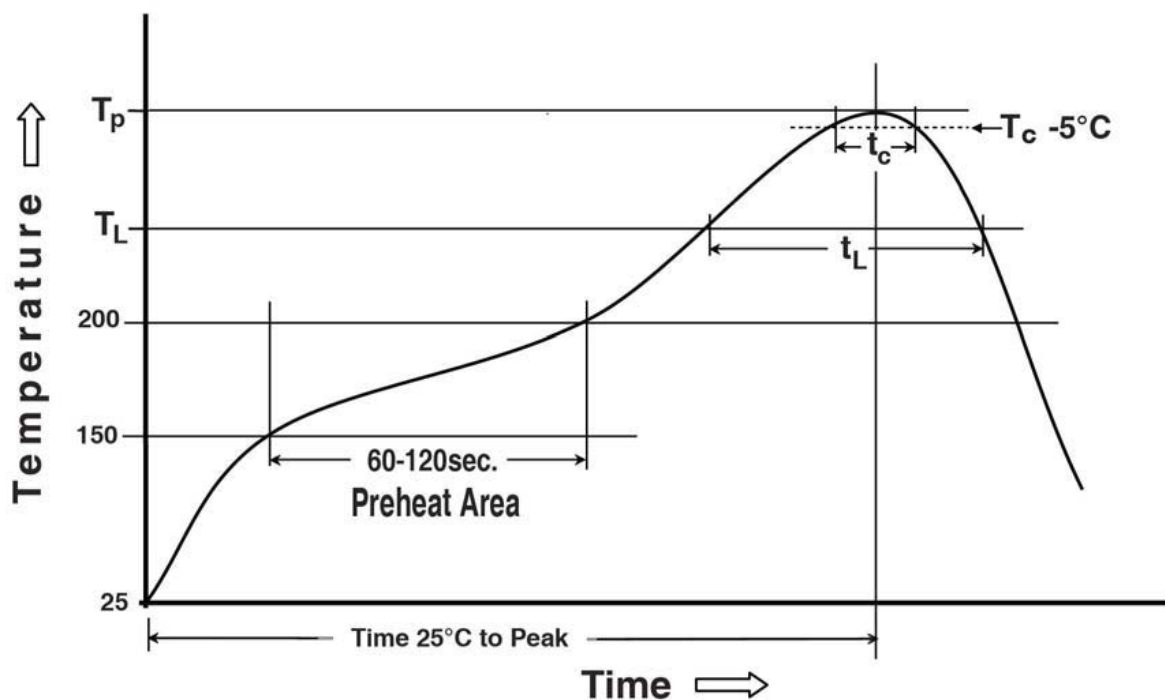


<b>MECHANICAL</b>		
<b>Item</b>	<b>Requirement</b>	<b>Test Condition</b>
Durability	5000 Cycles	EIA-364-09C
Push Force	200g Max. at Work Location	Speed 25±3mm/minute
Contact Retention Force	300gf Min./Pin	EIA-364-29C

<b>ENVIRONMENTAL</b>		
<b>Item</b>	<b>Requirement</b>	<b>Test Condition</b>
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 (TL): 217°C, 60~150 seconds  
 Peak temperature: 260°C  
 Time within 5 °C of peak temperature (Tc): 255°C, 30seconds