

## SPECIFICATION AND PERFORMANCE

<b>Series</b>	217B-CA04	<b>File</b>	217B-CA04_Spec_1	<b>Date</b>	2024/01/25
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### Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 217B-CA04

### 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	PA9T, UL94V-0, Black
2	CONTACT	Copper alloy, 3u" gold plating on contact area, gold flash on solder area, nickel under plating over all
3	MID PLATE	Stainless Steel, 0.15t
4	SHELL	Stainless Steel, 0.25t Nickel plating
5	COVER	Stainless Steel, 0.2t Nickel plating
6	ORING	Silicone
7	GLUE	EPOXY

### RATING

Rated Current	5A
Rated Voltage	20VAC Max.
Operating Temperature	-40°C to +85°C
Durability	5,000 cycles

### ELECTRICAL

Item	Requirement	Test Condition
Low level Contact resistance	40mΩ max(initial) 10mΩ max change for post test	Subject mated contacts assembled in housing to 20mV max open circuit at 100mA max. EIA-364-23B
Dielectric withstanding voltage	No flashover& spark over & excess leakage & breakdown	Test voltage 100V AC between adjacent contacts of mated and unmated connector assemblies for one minute. Interval of shield case and contacts too, in the same way EIA-364-20B

Insulation resistance	Initial: 100 MΩ min. Final( post test ) 100 MΩ min.	Test voltage 100±10V DC between adjacent contacts of mated and unmated connector assemblies interval of shield case and contacts too in the same way. EIA-364-21C
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### MECHANICAL

Item	Requirement	Test Condition
Mating force	0.5~2Kgf	Measure force necessary to mate connector assemblies at maximum rate of 30cycles/min. EIA-364-13
Unmating force	0.8~2Kgf	Measure force necessary to mate connector assemblies at maximum rate of 30cycles/min. EIA-364-13
Durability	Mating force: 0.5~2Kgf Unmating force: 0.8~2Kgf Contact resistance:10mΩ max change for post test appearance :no breakdown	Mate and unmated connector assemblies for 5,000 cycles at. Cycle rate of 500 cycles per hour if done EIA-364-09

### ENVIRONMENTAL

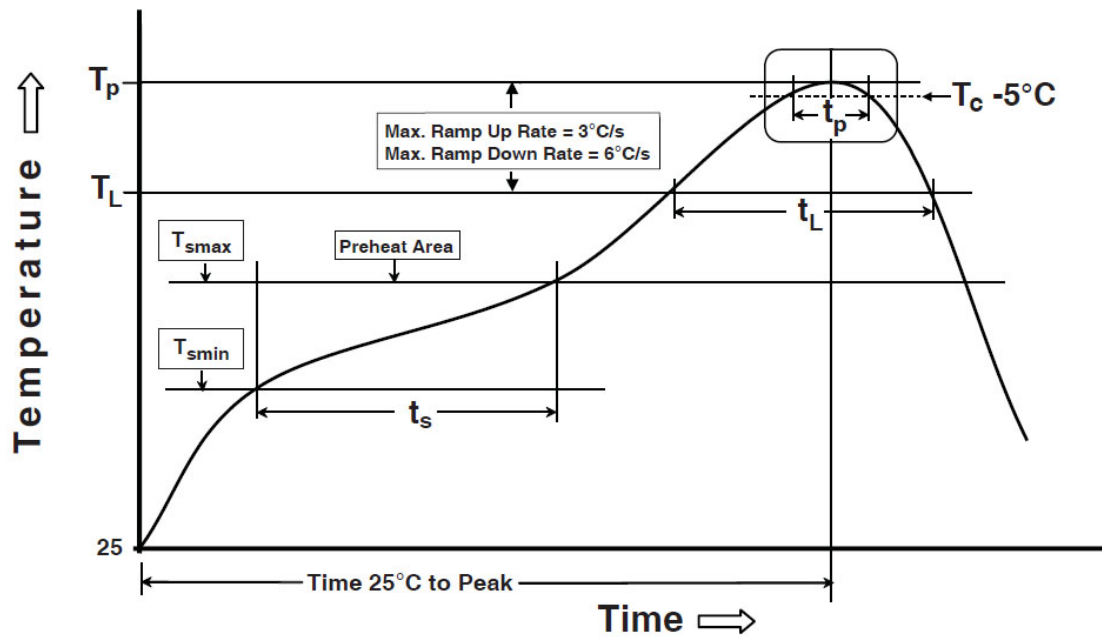
Item	Requirement	Test Condition
Thermal shock	Contact resistance:10mΩ max Change for post test	Mated connector -40±3°C(30minutes),+85±2°C(30minutes) Perform this 1 cycle ,repeat 10 cycles EIA-364-32C condition 1
Humidity	Withstand voltage: no breakdown Insulation resistance: 100 MΩ Min. Contact resistance: 10mΩ max. change for post test Appearance :no breakdown	Mated connector 25~65°C, 90~95% RH, 1 cycle:24 hours, 4cycles EIA-364-31B
Degree of protection	No significant change in pressure < 30 Pa	Test pressure: 15kPa~17kPa Test duration: 5 second

### SOLDER ABILITY

Item	Requirement	Test Condition
Solder-ability	Solder tails shall pass 95% min coverage	Solder temperature:265±5°C Duration:15±0.5sec .EIA-364-52



## 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