立威科技股份有限公司 Attend Technology Inc.
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SPECIFICATION AND PERFORMANCE

Series	217B-BA06	File	217B-BA06_SPEC_2	Date	2026/08/05

Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of below

Part Name	Description
217B-BA06	USB Type C Receptacle, Dual Row SMT Type, G/F, IP67 Waterproof, w/ Oring

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	PA46, UL94V-0, BLACK
2	CONTACT	C5210, gold flash on contact area, gold flash on solder tails, 80u" min. nickel under plating over all.
3	SHELL	SUS304, 50u" min. nickel under plating over all
4	ORING	Silicone

RATING	
Rated Current	5A
Rated Voltage	20V
Operating & Temperature	-40°C~+105°C
Durability	10,000

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ELECTRICAL		
Item	**Requirement**	**Test Condition**
Low Level Contact Resistance	Before test: 40mΩ max. After test: 50mΩ max.	1. The test method complies with EIA-364-23B 2. Maximum applied voltage 20mV at a current of 100mA per. Current leakage is 0.5mA
Dielectric Withstanding Voltage	No damage or deformation	1. Test method complies with EIA-364-20. 2. Mated connectors, apply 100VAC for 1 minute between adjacent terminal or ground .
Insulation Resistance	100 MΩ min.	1. Test method complies with EIA-364-21. 2. Apply 100VDC for immediately between adjacent terminals

MECHANICAL		
Item	**Requirement**	**Test Condition**
Insertion Force	5N to 20N	EIA 364-13B Measure the force required to mate and unmate the connector. speed:12.5±3mm/minute.
Extraction Force	8 N to 20 N. (Initial~3300 cycles) 6 N to 20 N. (3300~10000 cycles)	EIA 364-13B Measure the force required to mate and unmate the connector. speed:12.5±3mm/minute.
Durability	Contact resistance: 40 mΩ Max Initial 50mΩ Max Final Appearance: no damage	1. The test method complies with EIA-364-09 2. Standard Durability Class :10000 cycles Rate: 500 cycle per hour
Mechanical Shock	No discontinuities of 1 microsecond or long duration.	EIA-364-27B Subject mated connector to 30G's half-sine shock pulses of 11msec duration. Three shocks in each direction applied along three mutual perpendicular planed for a total of 18 shocks.
Vibration	No discontinuities of 1 microsecond or long duration.	EIA-364-28D Subject mated connectors to 10~55~10Hz traversed in 1 minute at 1.52mm amplitude 2 hours each of 3 mutually perpendicular planes.

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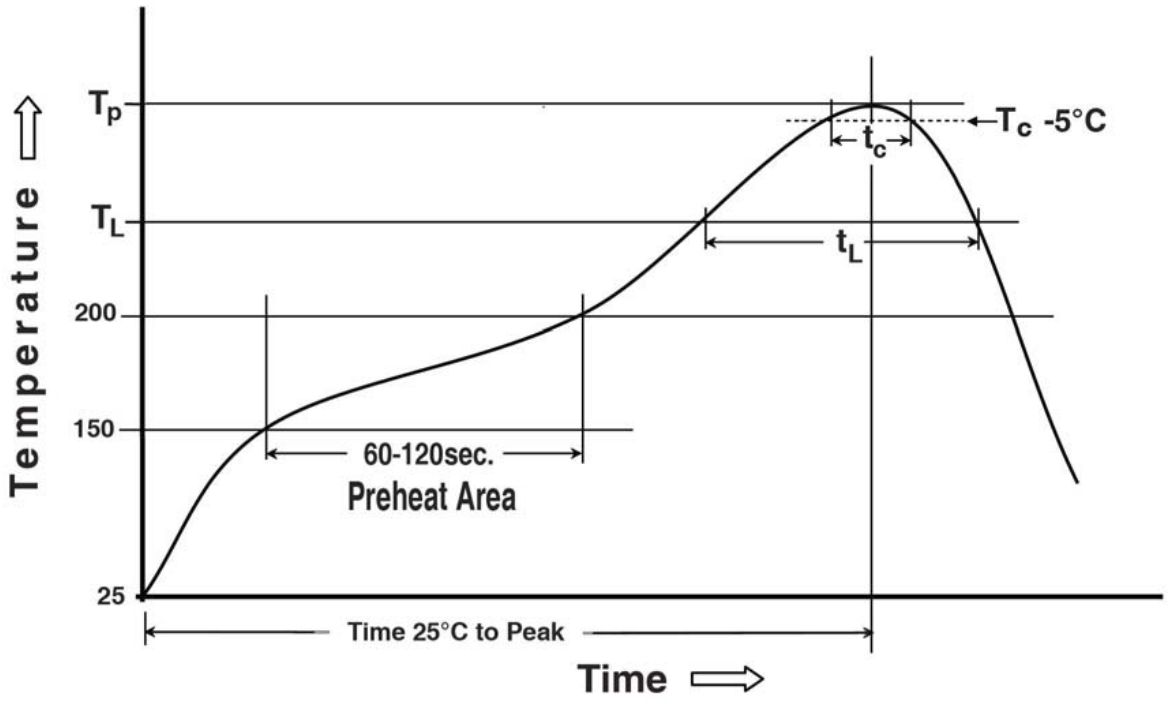
ENVIRONMENTAL		
Item	**Requirement**	**Test Condition**
Thermal Shock	1.Contact resistance: 40 mΩ Max Initial 50mΩ Max Final 2. Insulation Resistance:100 MΩ Min 3.Dielectric Strength: test ok 4.Appearance: no damage	EIA 364-32 10 cycles –55 °C and +85 °C. The USB connectors under test must be mated. The object of this test is to determine the resistance of a USB TYPE C connector to exposure at extremes of high and low temperatures and to the shock of alternate exposures to these extremes, simulating the worst case conditions for storage, transportation, and application.
Humidity	1. Contact resistance: 40 mΩ Max Initial 50mΩ Max Final 2. Insulation Resistance:100 MΩ Min 3. Dielectric Strength: test ok 4. Appearance: no damage	EIA 364-31 The object of this test procedure is to detail a standard test method for the evaluation of the properties of materials used in USB TYPE C connectors as they are influenced by the effects of high humidity and heat. 1. 96 hours minimum (4 complete cycles). 2. Mated connector 25~65°C, 90~95% RH, 3. conditions for 1 to 2 hours, after which the specified measurements shall be performed.
Salt Spray	1. Contact resistance: 40 mΩ Max Initial 50mΩ Max Final 2. Appearance: no damage	Subject mated samples. 35°C ±2° C ,5% Salt condition, 24 hours EIA 364-26B condition A
Temperature Life	1. Contact resistance: 40 mΩ Max Initial 50mΩ Max Final 2. Appearance: no damage	EIA-364-17B 1. Mated connector to 105±2°C for 120 hours upon completion of the exposure period, test exposure period the test specimens shall be conditioned at ambient room, 2. Conditions for 1 to 2 hours, after which the specified measurements shall be performed.

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SOLDER ABILITY		
Item	**Requirement**	**Test Condition**
Solder ability	95% of immersed area must show no voids, pin holes	The termination should be 95% covered with new continuous solder coating Solder temperature: 245±5°C Test time: 3±0.5 seconds, (Per EIA-364-71)
Resistance to soldering heat	No melting, cracks or functional damage allowed	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

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

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