



新北市汐止區新台五路一段75號6樓之二

6F-2, No.75, Sec.1, Xintai 5th Rd., Xizhi-Dist., New Taipei City 221, Taiwan, R.O.C. TEL 886 2 2698 7028 FAX 886 2 2698 7078 WEBSITE www.attend.com.tw

SPECIFICATION AND PERFORMANCE

Series	115R-BCA0	File	115R-BCA0_Spec_2	Date	2023/01/10
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Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of **115R-BCAO**

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, Black		
	Material	Contact: Copper Alloy 0.08T Ground: Stainless 0.15T		
CONTACT	Plating	Contact: 5u" selective gold plating on contact and solder area Ground: G/F selective gold plating on solder area Under plating nickel		
SHELL	Material	Stainless 0.12T		
SHEEL	Plating	50u" nickel plating		
RATING	Voltage & Current: 10V AC/ DC, 0.5A Max. Operating Temperature: -40°C to +85°C Storage Temperature: -40°C to +85°C Storage Humidity: +10%~+80% RH			

ELECTRICAL			
Item	Requirement	Test Condition	
Current Rating	Temperature rise: 30°C	Apply the rated current to connector, EIA 364-70	
	Max.		
	Current: 0.5A Max.		
Contact Resistance	Initially 50 m Ω Max.	EIA-364-23C	
	Finally 100 mΩ Max after	Mate connectors with dry circuit (20 mV, 100mA	
	test.	Max.)at 0.05mm away from housing top surface	
		(see appendix 1)	
Insulation Resistance	(Initial) 1000 M Ω Min.	EIA-364-21C	
	(Final) 500 M Ω Min.	After 500 VDC for 1 minute, measure the	
		insulation resistance between the adjacent	
		contacts of mated and unmated connector	
		assemblies.	
Dielectric Withstanding	No shorting, breakdown,	Comply with EIA-364-20.Apply	
Voltage	flashover or other	500 VAC for one minute at sea level on unmated	
	damage.	connectors, less than 0.5 mA leakage current.	



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MECHANICAL			
Item	Requirement	Test Condition	
Contact Normal Force	30gf Min./per Pin	Omm gap to housing surface (work position) Speed of 0.60±3 mm/minute (0mm from housing) (refer to Appendix 2)	
Durability (Vertical Insertion Direction)	Contact resistance Initially 50 mΩ Max. Contact resistance Finally 100 mΩ Max. Contact Normal Force within spec. (refer to Appendix 1&2)	Mate connectors at 240-550 cycles/hour to 3000 cycles. Vertical insertion for max deflection case.	
Open & Lock Durability	Durability: 50 Cycles Final Force: 150g Min.	SIM card connector on the PCB welding, load a SIM card inside the connector, parallel to push on the shell surface for open & lock	

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Item	Requirement	Test Condition	
LOW temperature resistance	Contact resistance $100m\Omega$ Max.	At -30°C for 96 hours Recovery: 2 hours at ambient atmosphere	
Humidity resistance	There shall be no short circuiting and damage detected at AC 500V r.m.s Insulation resistance: $1000M\Omega$ Min. Contact resistance: $100m\Omega$ Max.	EIA 364 - 31 Method II Test Condition A. Subject unmated connectors to 96 hours at 60°C with 90% to 95% R.H.	
Temperature life	Resistance: $100m\Omega$ Max. change from initial value	At +85°C for 96 hours	
Salt Spray	Meets requirements of product drawing Contact resistance: $100 \text{m}\Omega$ Max.	EIA-364-26B Subject mated connectors to 5+/-1%salt-solution concentration, 35+/-2°C for 24hours. After test, rinse the sample with water and recondition the room temperature for 1 hour	
Vibration (Random)	Contact resistance $100m\Omega$ Max. Discontinuity < 1 ms	(EIA-364-28) Frequency: 10~100 Hz, 0.0132 g2/Hz; Frequency: 100~500Hz, -3dB/Oct Applied for 1 hours in each 3 mutually perpendicular axes	
Shock (specified pulse)	Contact resistance $100 \text{m}\Omega$ Max. Discontinuity < 1 ms	Pulse shape = half sine Peak acceleration = 490m/s2 (50G) Duration of pulse = 11ms Apply 3 successive shocks in each direction along the 3 mutually perpendicular axes. (EIA364-27)	



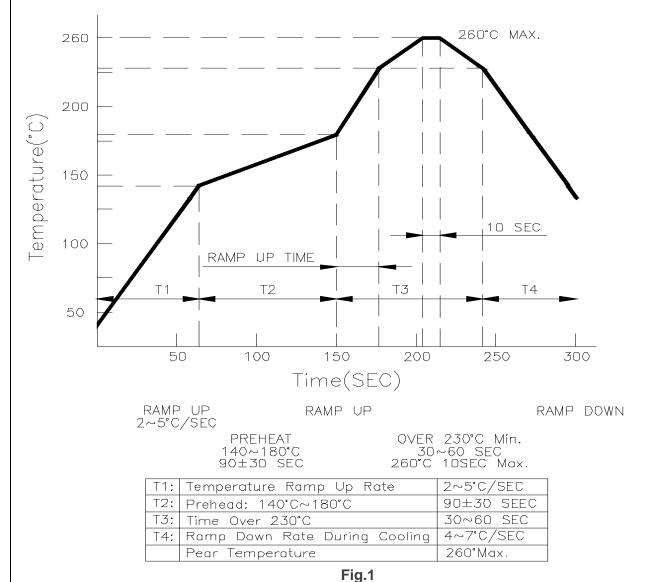
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SOLDER ABILITY			
Item	Requirement	Test Condition	
Solder-ability	The inspected area of	JESD22-B102D,Condition C	
	each lead must have 95% solder coverage min.	Steam aging Preconditioning: $93+3/-5$ °C, 8 hours ± 15 minute	
		For SMT:	
		Solder temperature: 245± 5°C.	
		Solder immersion time: 5±0.5s	
Soldering heat	Inspect dimension during	Reflow soldering (Infrared):	
withstanding	the test, no physical	Refer soldering method	
	damage		

Recommended Infrared Reflow Condition:



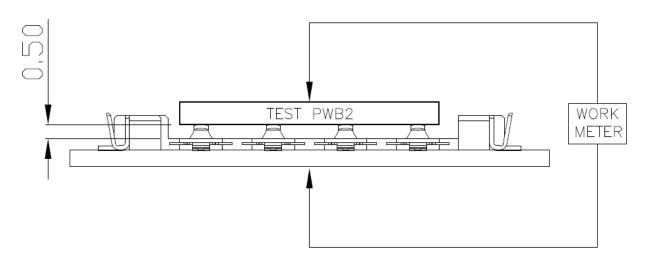


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Appendix 1:Contact Resistance Measurement



Appendix 2: Card Insertion Directions in Durability:

