

SPECIFICATION AND PERFORMANCE

Series115R-BCA0File115R-BCA0_Spec_2Date2023/01/10	
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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		
STILLE	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 Max. Current: 0.5A Max.	Apply the rated current to connector, EIA 364-70		
Contact Resistance	Initially 50 m Ω Max. Finally 100 m Ω Max after test.	EIA-364-23C Mate connectors with dry circuit (20 mV, 100mA Max.)at 0.05mm away from housing top surface (see appendix 1)		
Insulation Resistance	(Initial) 1000 MΩ Min. (Final) 500 MΩ Min.	EIA-364-21C After 500 VDC for 1 minute, measure the insulation resistance between the adjacent contacts of mated and unmated connector assemblies.		
Dielectric Withstanding Voltage	No shorting, breakdown, flashover or other damage.	Comply with EIA-364-20.Apply 500 VAC for one minute at sea level on unmated 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			

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

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Appendix 1: Contact Resistance Measurement



Appendix 2: Card Insertion Directions in Durability:



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