	AMP J-002							
5351		Product Specification						
08-		108-5351						
-	ļ	AMP-LATCH Series.						
	x	FCRC Puddle card Connector						
This specification may change without notice as a result of product design change amd product de								
ome r Pase	1. Scope :							
Cust Rele	This specifica assurance prov	tion covers the requirements for product performance, test methods and quality visions of AMP-LATCH Series.FCRC Puddle card Connector. product descriptions and part number are as shown in Fig. 1 :						
SECURITY CLASSIFICATION :	Product Part No.	Descriptions						
C N	216093-X	Puddle card Connnector Kit						
		. Fig. 1						
	of conflict betw drawing shall specification a 2.1 AMP Specific A. 109-5000 B. Test Repo	documents from a part of this specification to the extent specified herein. In the event ween the requirements of this specification and the product drawing, the product take precedence. In the event of conflict between the requirements of this and the referenced documents, this specification shall take precedence. ations : Test Specification, General Requirements for Test Methods rt : TR-90254 dard and Specifications : Test Methods for Electronic and Electrical Component Parts						
DIST		ZY-MAR91 SHEET AMP (Japan), Ltd. M.WASH ZU 1 CHK. OF SHEET 1 AMP (Japan), Ltd. Kawasaki, Japan SHEET SHEET CHK. OF SHEET SHEET Image: Sheet of the second state of the						
PRINT	0 RFA-1765	$\frac{MWZN}{39.91} \frac{39.4R^{-91}}{1.1} FCRC Puddle card Connector$						

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	AMP J - 002								
-	3.	Requirements :							
-535	3.1 Design and Construction :								
108-	Product shall be of the design, construction and physical dimensions specified on the applicable product drawing								
	3.2								
NUMBER :	A. Contact : Contact is made of phosphor bronze, with bright tin-lead plating of 2.5 to 5.0 μ m over nickel underplate of 1.3 μ m all over.								
stomer lease	3.3	ming to UL 94 V-0							
u ≊U		A. Voltage Rating	: 250 VAC maximum						
ž		B. Current Rating	: 1 A maximum per contact po	osition.					
SECURITY CLASSIFICATION :		C. Temperature Rating	: -55 °C to $+85$ °C						
SECURI	3.4	Performance and Test Des	criptions :						
	The product is designed to meet the electrical, mechanical and environmental performance requirements specified in Fig. 2. All tests are performed at ambient temperature, unless otherw specified. The Note (a) "Shall meet visual requirements, show no physical damage"								
	Para. Test Items Requirements Procedures								
	3.4.1	Confirmation of Product	Product shall be conforming to the requirements of applicable product drawing.	Visually, dimensionally and functionally inspected per applicable inspection plan.					
3.5 Electrical Requirements									
	3.5.1	Termination Resistance (Low Level)	15 mΩ max. (Initial) 30 mΩ max. (Final)	Subject contacts assembled in housing to closed circuit current of 50 mA max. at open circuit voltage of 50 mV max. Fig. 3. AMP Spec. 109-5306					
		Fig.2 (con	2 OF	Kawasaki, Japan					
	NAME AMP-LATCH Series. FCRC Puddle card Connector								

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	Para.	Test Items	Requirements	. Procedures		
		Insulation Resistance	5000 MΩ min. (Initial) 1000 MΩ min. (Final)	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the connector. MIL-STD-202, Method 302, Condition B.		
	3.5.3	Dielectric Strength	Connector must withstand test potential of 0.5 kVAC for 1 minute. Connector shall withstand without abnormalities such as circuit breakdown and flashover.	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the connector. MIL-STD-202, Method 301		
μ μ	3.6	<u> </u>	Physical Requirements	j		
Č	3.6.1	Vibration Sinusoidal High Frequency	No electrical discontinuity greater than 1 microsecond sha occur. See Note (a). After vibratile conditioning, low leve termination resistance shall be 30 mΩ max.	Connectors to 10-500-10 Hz traversed in 15 minutes with 10 G accelerated velocity; 3 hours each of 3 mutually perpendicular planes with contact-		
	3.6.2	Physical Shock	No electrical discontinuity greater than 1 microsecond (s) shall occur. See Note (a). After vibratile conditioning, low lev termination resistance shall b 30 mΩ max.	duration; 3 shocks in each direction vel applied along the 3 mutually		
		Fig.2 (0	SI	HEET AMP (Japan), L Kawasaki, Japa		
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	Para.	Test Items	Requirements	- Procedures		
1 050-901	Resistance to Soldering Heat 3.6.3		No physical damage	Subject connectors mounted on printe circuit board to solder bath at 260 °C for 10 seconds MIL-STD-202, Method 210, Condition B except as indicated above		
	3.7		Environmental Requirements	·		
kelease	3.7.1	Thremal Shock	Termination Resistance (Low Level) (Final) ; 30 mΩ MAX. See Note (a)	Connectors to 5 cycles between – 55 °C and 85 °C. MIL-STD-202, Method 107, Condition A		
CLASSIFICATION :	3.7.2	Humidity, Steady State	Insulation Resistance (Final) 1000 M Ω min. Termination Resistance (Low Level) (Final) 30 m Ω MAX. And meet the requirements of dielectric strength per Para. 3.5.3.	Subject connectors to steady state humidity at 40±2 °C and 90-95 % R.H. for 96 hours. MIL-STD-202, Method 103, Condition B		
	3.7.3	Salt Spray	Termination Resistance (Low Level) (Final) ; 30 mΩ MAX. Must meet visual & electrical requirements, where applicable.	Sample connectors to 5% salt concentration for 48 hours ; MIL-STD-202, Method 101, Condition B		

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Fig.2 (end)

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3.8 Product Qualification and Requalification Tests

	Test Group (a)								
Test or Examination	1	2	3	4 (c)	5	6			
		Test Sequence (b)							
Examination of Product	1,5	1,5	1,5	1,6	1,7	1,3			
Termination Resistance, Dry Circuit	2,4	2,4	2,4	2,5					
Dielectric Withstanding Voltage					3,6				
Insulation Resistance				<u> </u>	2,5				
Vibration				3	·····				
Physical Shock				4					
Resistance to Soldering Heat	_					2			
Thermal Shock (per Product Spec)		3							
Humidity, Steady State	3			<u> </u>	4				
Corrosion, Salt Spray			3			·			
Number of Samples	5	5	5	3	5	5			

- (a) Connector housings and contacts shall be prepared in accordance with applicable Instruction Sheet. They shall be selected at random from current production.
- (b) Numbers indicate sequence in which tests are performed.
- (c) Discontinuities shall not take place in this test group, during tests.

Fig. 3



Fig. 4 Low Level Termination Resistance Probing Points

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F				CH Series. ard Connector		

secunity classification: Customer Number: 108–5351 Release