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SPECIFICATION AND PERFORMANCE

Series	303C	File	303C-C4115-30-04_SPEC_1	Date	2021/12/06
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Scope:

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

Part Name	Description
303C-C4115-30-04	Pogo Machine Pin, Magnet Type, 4P H=4.15mm, Pitch 3.0, DIP, 20u", black
303C-321018-30-04	Pogo Pin, Magnet Type, 4Pin H4.6, Pitch 3.0, DIP, 5u", Black

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	HTN FR52G30NH, UL94V-0, Black		
2	POGO PIN	Lead free brass C6801 or equivalent, gold plating over nickel		
3	MACHINE PIN	Lead free brass C2801 or equivalent, gold plating over nickel		
4	MAGNET	Neodymium magnet N48, nickel plating		
5	GLUE	LTE-120HP		

RATING		
Rated Current	1A	
Rated Voltage	12V DC	
Operating Temperature	-30°C TO +60°C	
Storage Temperature	-30°C TO +60°C	
Durability	20,000 Cycles	

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ELECTRICAL			
Item	Requirement	Test Condition	
Contact Resistance	30mΩ Max. at working	Voltage drop system four-wire system with below	
	stroke (at standing still)	300mA	
Dielectric Strength	No dielectric breaks down.	500VAC 1 minute	
Insulation Resistance	100M MIN.	500VDC 1 minute	

MECHANICAL			
Item	Requirement	Test Condition	
Pin Force	40g±20g	0.4mm compression, test speed 25.0mm/min.	
Pin Strength	No appearance damage	9.8N force on pin from any direction for 1 minute	
Pin Pulling Off Force	No appearance damage	3.0N force on a pin from axis direction for 1 minute	

ENVIRONMENTAL			
Item	Requirement	Test Condition	
Operation durability	No appearance damage	1.0mm pin compression for the nominal stroke at a	
	Contact Resistance:	frequency of 10 to 20 times per minute for 20,000	
	100mΩ Max.	cycles.	
	Pin Force: 80g±0.2g		
	No appearance damage		
Low Temperature	Contact Desistance	Store in temp: -30°C±3°C for 96hrs, then leave in	
Durability	Contact Resistance: 100mΩ Max.	the ambient temperature for 1 hour.	
High Temperature		Store in temp: +60°C±2°C for 96hrs, then leave in	
Durability	No appearance damage	the ambient temperature for 1 hour.	
Humidity Durability		Store in temp: 60°C±2°C with humidity of 90% ~	
		95% for 96hrs, then leave in the ambient	
	Meet electrical spec.	temperature for 1 hour.	
Temperature Cycle Test	No appearance damage	Cycle 5 times	
		(Table 1 Shows test condition for 1 circle).	
		Leave in the ambient temp for 1 hour.	
Salt Spray	No excessive surface	The electrical performance shall be measured after	
	corrosion	continuous spray of salt water with 5±1% density	
		and 35°C±2°C temperature for 24 hours, cleaning	



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Vibration	/ibration Contact Resistance:	with lukewarm water and dry, and leaving in ambient temperature for 1 hour. Connect each connector pin in series, conducting current of 0.1A. After that, the vibration described below is added. • Amplitude: 1.5mm • Sweeping cycle: 10~55~10 Hz/minute • Duration of test: 2 hours for each of X, Y, Z axis
Shock	- 100mΩ Max. No appearance damage Intermittency below 1μ sec	Connect each connector pin in series, conducting current of 0.1A. After that, the shock described below is added. • Accelerating rate: 490m/s² • Operating time of the test: 11ms • The number of operating times: 3 shocks at X, Y, Z axis both in negative and positive direction.

Table 1 –Temperature Cycle

Step	Temperature (°C)	Time (minutes)
1	-30±3	30~35
2	5~35	10~15
3	60±2	30~35
4	5~35	10~15