



新北市汐止區新台五路一段81號10樓之六 10F-6, No.81, 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	303D	File	303D-D100X02_SPEC_1	Date	2022/04/07
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Scope:

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

Part Name	Description
303D-D100F02	Pogo Pin Magnet Type, Machine Pin 2P, 10.0D, DIP, 10u", 500g, 5A, black
303D-D100M02	Pogo Pin Magnet Type, 2P, 10.0D, DIP, 10u", 500g, 3A, 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			
2.1	PISTON	Lead free brass C6801 or equivalent, gold plating over nickel		
2.2	BARREL	Lead free brass C6801 or equivalent, gold plating over nickel		
2.3	SPRING	Stainless steel 304 or equivalent		
3	MACHINE PIN	Lead free brass C6801 or equivalent, gold plating over nickel		
4	SLEEVE	Lead free brass C6801 or equivalent, gold plating over nickel		
5	MAGNET	Neodymium magnet N35, nickel plating		
6	GLUE	LSR-67		

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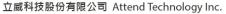
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RATING		
Rated Current	3A	
Rated Voltage	12V DC	
Operating Temperature	-30°C TO +60°C	
Storage Temperature	-30°C TO +60°C	
Durability	20,000	

ELECTRICAL			
Item	Requirement	Test Condition	
Contact Resistance	50mΩ 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	80g±0.2g	1.1mm 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	4.9N force on a pin from axis direction for 1 minute	

ENVIRONMENTAL			
Item	Requirement	Test Condition	
Operation durability	No appearance damage	1.1mm 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 Resistance: 100mΩ Max.	Store in temp: -30°C±3°C for 96hrs, then leave in	
Durability		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.	





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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 48 hours, cleaning	
		with lukewarm water and dry, and leaving in	
		ambient temperature for 1 hour.	
Vibration		Connect each connector pin in series, conducting	
		current of 0.1A. After that, the vibration described	
		below is added.	
		Amplitude: 1.5mm	
	Contact Resistance:	Sweeping cycle: 10~55~10 Hz/minute	
	100mΩ Max. No appearance damage	Duration of test: 2 hours for each of X, Y, Z axis	
Shock		Connect each connector pin in series, conducting	
		current of 0.1A. After that, the shock described	
	Intermittency below 1µ	below is added.	
	sec	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