



SPECIFICATION AND PERFORMANCE

Series	303D-L186&236	File	303D-L186&236_SPEC_1	Date	2025/07/03
--------	---------------	------	----------------------	------	------------

Scope:

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

P/N	DESCRIPTION		
303D-L186F020	Pogo Pin Magnetic Connector, 2 Pin Female, Waterproof IP67		
303D-L186M020	Pogo Pin Magnetic Connector, 2 Pin Male, Waterproof IP67		
303D-L236F040	Pogo Pin Magnetic Connector, 4 Pin Female, Waterproof IP67		
303D-L236M040	Pogo Pin Magnetic Connector, 4 Pin Male, Waterproof IP67		

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	Contact	Brass C6081, 10u" min. gold plating over 50-120u" min. nickel plating		
2	Housing	Nylon PA9T, UL94V-0, black		
3	Magnet	N52, Φ3X4.0, 200u" min. nickel plating, 3600±10% GS		

RATING		
Rated Voltage	5V	
Rated Current	3A	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	





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

ELECTRICAL			
Item	Requirement	Test Condition	
Contact Resistance	50mΩ Max	Voltage drop system four-wire system	
		with below 300mA	
		EIA-364 23	
Dielectric Withstanding	No breakdown at 500VDC	EIA 364-20	
Voltage	/1minute		
Insulation Resistance	100MΩ Min. at 500VDC /2	EIA 364-21	
	minute		

MECHANICAL			
Item	Requirement	Test Condition	
Pin Strength	No appearance damage	Apply 9.8N static load on the plunger in	
		direction for 1 minute.	
Pin Pulling Off Force	No appearance damage	Apply 4.9N static load on the pin in axis	
		direction for 1 minute.	

ENVIRONMENTAL			
Item	Requirement	Test Condition	
Humidity (Steady state)	Meets requirements of product	EIA-364-31B method II Condition A	
	drawing and electrical		
	specification.		
Salt spray	Meets requirements of product	Temperature : 35±2°C	
	drawing and electrical	Density of salt water : 5±1%	
	specification.	Duration : 4 hours ± 15min.	
Cold resistance	Meets requirements of product	The connector housing shall be store at	
	drawing and electrical	temperature of -40±3°C for 48 hours	
	specification.		
Dry heat	Meets requirements of product	The connector housing shall be store at	
	drawing and electrical	temperature of 85±2°C for 96 hours	
	specification.		



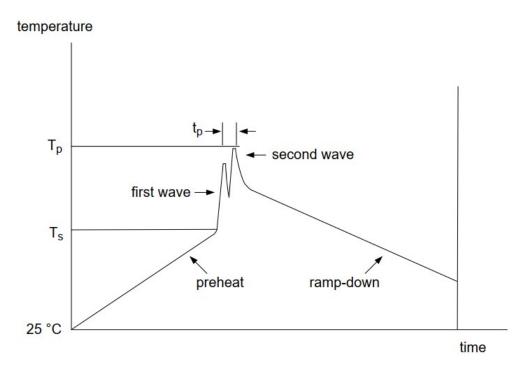
立威科技股份有限公司 Attend Technology Inc.

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

IP degree of protection	IPX7	IEC 60529
		Sample condition: mated
		Put the testing sample under water 1m,
		duration 30 minutes

SOLDER ABILITY			
Item	Requirement	Test Condition	
Hand Soldering	Without deformation of case or	Solder Temperature: 260±20°C	
	excessive loosen.	Time: 3 sec	

Wave Soldering Profile



Preheating temperature: 25 ~ 140°C

Preheat Time: 80 seconds

Solder temperature: 260°C ±5°C

Solder Immersion Time: Single Wave Simulation 5 ±1 seconds

Dual Wave Simulation First Wave - 5 ± 1 seconds Second Wave - 5 ± 1 seconds