



L25-T 3PIN FIELD ASSEMBLY CONNECTOR

1: Appearance&Environment Description

1.1 Reference dimension (L*W*H) (mm): the drawing is only for reference, please make the object as the standard

1.2 Application Environment

Operating Temperature :-45℃~105℃
 Atmospheric pressure:(86~106) Kpa
 Waterproof Level:IP68

Storage Temperature:-25℃~85℃
 Humidity≤90%
 Pin:3pin

2: Product Structure

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|---|-----------------------------|
| 2.1 Wire Mean: screw | 2.2 Max OD: Φ16mm |
| 2.3 Contact Material:Copper Nickel Zinic plated | 2.4 Material: Nylon, V-0 |
| 2.5 Waterproof Ring: silica gel | 2.6 Glue: Epoxy Resin |
| 2.7 Max Current Rating: 35A | 2.7 Voltage Rating: 500V AC |

3: Test

- 3.1 Breakdown Voltage:In accordance with method 1005 in GJB1217-1991,under the normal temperature and atmospheric pressure,the valid voltage between conductor and insulator is AC 300V/50Hz,stand 1 min have no breakdown or flashover ,the leakage current is less than 2mA
- 3.2 Insulation Resistance:In accordance with method 1005 in GJB217-1991,under the normal temperature and atmospheric pressure ,the voltage between conductor and insulator is DC500V,the insulation resistance is more than 20MΩ .
- 3.3 Salt Spray Test: In accordance with method 1001 in GJB217-1991,the unplug connectors don't be corrosion at the temperature 35±2℃ with 5% NaCl liquor spray test after 48 hours.
- 3.4 Waterproof performance:under the normal temperature,plug the male female connector put into the 1m depth water inner connector have no permeate happened after 0.5 hour.
- 3.5 Contact Separating Force:The separating force is 1.0-4.0N
- 3.6 Mechanical component life-test: In accordance with method 2016 in GJB1217-1991.under plug and unplug 3000 times permit the plated contact slight abrasion but don't allow to bare the body of the brass. It doesn't affect the function of the connector .After test the contact resistance conform to the requirement of 3.3 test
- 3.7 Compatibility :The sample type connector can plug or unplug freely.
- 3.8 Adapt to Environment :Connector achieve all requirement of the form 1 after test .
- 3.9 Test Way: Except other regulation, the normal temperature:15℃~35℃,humidity:45%~75%, Atmospheric pressure:86KPa~106KPa
- 4.0 Contact Resistance :Less than 10mΩ .

Form

Project		Test Condition		Test Way	Requirement
2	Low temperature	Storage tempreture, °C	-25±2	GB/T2423.1-2001 中 "Test Ab"	
		Durability time , h	16		
		Resume time , h	2		
3	High temperature	Storage tempreture, °C	85±2	GB/T2423.2-2001 中 "Test Bb"	
		Durability time , h	16		
		Resume time , h	2		
4	constant temperature and moisture	operating temperature, °C	85±2	GB/T2423.9-2001 中 "Test Cb"	
		Relative moisture, %	93±3		
		Durability time , h	48		
		Resume time , h	2		
5	vibration	frequency, Hz	10~55	GB/T2423.10 -1995 中 "Test Fc"	
		amplitude , mm	0.35		
		Vibration direction	three mutually perpendicular direction		
		Durability time as time of circular of sweep frequency	10 time		
6	Free fall	Height, mm	300	GB/T2423.10 -1995 中 "Test Fc"	
		Time	2		

Dimension

