

LEOCO CORPORATION		PRODUCTION SPECIFICATION		No.	S-10-2514-2
* 2514 Series RAST2.5 connector *					
This product specification contains the test method, the following datum are the general performance and requirements of the LEOCO 2514 series wafer & socket.					
1. Construction and dimensions shall be in accordance with the referenced drawings.					
2. Characteristics:					
Current rating 额定电流: 4 A max					
Voltage rating 额定电压: Pitch 2.5mm : 32 V					
Pitch 5.0mm : 250V					
Temperature rating 额定温度: -40°C ~ +110°C					
3. Electrical performance:					
Item	Description	Test Method & Condition		Requirement	
3-1	Contact resistance 接触阻抗	It should be tested in accordance with method EIA-364-23.		20mΩ max. Initial. After test 40 mΩ max.	
3-2	Insulation resistance 绝缘阻抗	In accordance with EIA-364-21, DC 500 V shall be applied between contacts and between an individual contact and a case for one minute.		1000 MΩ min initial. After test 500 MΩ min.	
3-3	Dielectric Withstanding Voltage 耐电压	In accordance with EIA-364-20, AC 500 V shall be applied between contacts and between an individual contact and a case for one minute. (leak current 2mA)		There should be not flash over spark over or dielectric breakdown.	
4. Mechanical Performance :					
Item	Description	Test Method & Condition		Requirement	
4-1	Pin Retention Force from Base	Apply axial pull out force at the speed: 25 mm / minute on the contact assembled in the housing.		1.0kgf/Contact Min.	
4-2	Wire Retention Force from Housing	Apply axial pull out force at the speed: 25 mm / minute on the contact assembled in the housing.		4.0kgf/Contact Min.	

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-10-2514-1
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5. Environmental Performance :

Item	Description	Test Method & Condition	Requirement
5-1	Humidity 耐湿性	Test method EIA-364-31. Temperature: 40±2 °C Humidity: 90 ~ 95 % (RH) Period: 96 hours.	No damage. Contact resistance less than twice of initial. Insulation resistance more than 10 MΩ
5-2	Salt Spray 盐雾测试	Connector shall be tested in accordance with method EIA-364-26. Temperature: 35±2°C Density: 5 % in weight. Period: 48 hours.	No damage. Contact resistance less than twice of initial.
5-3	Temperature rise 温升测试	Mate connectors: Measure the temperature rise at rated current after 1 hours. Test method: EIA-364-70	Temperature rise 30°C max.

6. Socket Mating Force and Unmating Force for 2514 (RAST2.5) Series:

No. Of circuits	Mating Force Max. (Unit: kgf)	H Type (2514S**H***) Unmating Force Min. (Unit: kgf)	D Type (2514S**D***) Unmating Force Min. (Unit: kgf)
2 Circuits	2.0	0.10	0.80
3 Circuits	2.5	0.15	0.85
4 Circuits	3.0	0.20	0.90
5 Circuits	3.5	0.25	0.95
6 Circuits	4.0	0.30	1.00
7 Circuits	4.5	0.35	1.05
8 Circuits	5.0	0.40	1.10
9 Circuits	5.5	0.45	1.15
10 Circuits	6.0	0.50	1.20
11 Circuits	6.5	0.55	1.25
12 Circuits	7.0	0.60	1.30

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