LEOCO CORPORATION PRODUCTION SPECIFICATION No. S-04-5011 Rev. 6

* 5011 Series RAST 5 connector *

This product specification contains the test method, the following datum are the general performance and requirements of the LEOCO 5011 series wafer & socket.

- 1. Construction and dimensions shall be in accordance with the referenced drawings.
- 2. Characteristics:

Current rating: 16 A max. AC DC Voltage rating: 380V AC DC Temperature rating: -40°C ∼ +120°C

3. Electrical performance:

Item	Description	Test Method & Condition	Requirement
3-1	Contact resistance	It should be tested in accordance with	20m Ω max. Initial.
		method EIA-364-23.	After test 40 m Ω max.
3-2	Insulation resistance	In accordance with EIA-364-21, DC 500 V	1000 M Ω min.
		shall be applied between contacts and	
		between an individual contact and a case	
		for one minute.	
3-3	Dielectric	In accordance with EIA-364-20, AC 500 V	There should be not flash
	Withstanding	shall be applied between contacts and	over spark over or
	Voltage	between an individual contact and a case	dielectric breakdown.
		for one minute.	
		(leak current 2mA)	

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.	4.0kgf/Contact Min.
4-2	Terminal 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.
4-3	Durability	It should be tested in accordance with method EIA-364-09. Connector shall be subjected to 10 cycles of insertion and withdrawal in one minute.	Contact resistance less than twice of initial.

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	onmental Performance						
Item	Description	Test Method & Condition	Requirement				
5-1	Humidity	Test method EIA-364-31. NO damage.					
		Temperature: 40±2 °C	Contact resistance less than				
		Humidity: 90 ~ 95 % (RH)	twice of initial.				
		Period: 96 hours.	Insulation resistance mo				
			than 10 M Ω				
			Dielectric Withstanding				
			Volta	ge meets the			
			requi	rement of item 3	3-3		
5-2	Salt Spray			amage.			
		with method EIA-364-26.	_	act resistance le	ss than		
		Temperature: 35±2 ° C	twice	of initial.			
		Density: 5 % in weight.					
	0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Period: 48 hours.	NO -				
5-3	Solder ability	Connector termination ends shall be	3				
		checked for solder ability in accordance with method EIA-364-52.			mersea		
		with method EIA-364-52. area. Solder temperature: 260±5 ° C					
		Immersion period: 5±0.5 sec.					
5-4 Temperature rise		Mate connectors: Measure the	Temperature rise 50° C				
		temperature rise at rated current after 4	max.				
		hours.					
		Test method: EIA-364-70					
5-5	Heat aging	Temperature:85±2℃	No d	amage.			
		Period:96 hours	Contact resistance less than				
			twice	of initial.			
5-6	Resistance to	Soldering temperature: 260±5°C	No d	amage.			
	Soldering Heat	Soldering time:3~5 sec.	Cont	act resistance le	ss than		
			twice	of initial.			
5-7	Low temperature	Temperature:-25±3℃	No d	amage.			
		Period:96 hours	Cont	act resistance le	ss than		
			twice	of initial.			
6. VDE test item							
6-1	. `	Test shall be according to test 4a of	There shall be not flash over				
	of IEC 60512)	IEC60512.Test duration shall be 1 min.		over or dielectr	ic		
		Test voltage is 1.39KV (rms)	break	kdown.			

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7.Product Qualification Test Sequence

Test or Examination	1	2	3	4	5	6	7	8	9	10
				-	Test S	Sequen	се			
Appearance examination of product	1	1,6	1,3	1,4	1	1,3	1,4	1,4	1,4	1,4
Contact resistance		2,7		2,5			2,5	2,5	2,5	2,5
Insulation resistance		3,8								
Dielectric Withstanding Voltage		4,9								
Pin Retention Force from Base	2									
Terminal Retention Force from	3									
Housing										
Humidity		5								
Heat aging							3			
Salt Spray				3						
Solder ability			2							
Temperature rise					2					
Durability								3		
Resistance to Soldering Heat									3	
Low temperature										3
Voltage proof(Test 4a of IEC 60512)						2				

8.Socket Mating Force and Unmating Force for RAST 5 Serial:

(Without lock on the Housing)

No. Of circuits	Mating Force Max. (Unit: kgf)	Unmating Force Min. (Unit: kgf)
2 Circuits	4.0	1.6
3 Circuits	5.0	2.2
4 Circuits	6.0	2.8
5 Circuits	7.5	3.4
6 Circuits	8.5	4.0

9. Socket Mating Force and Unmating Force for RAST 5 Serial:

(With lock on the Housing)

	No. Of circuits	Mating Force Max. (Unit: kgf)		Unmating Force Min. (Unit: kg		
	2 Circuits	4.5			2.6	
	3 Circuits		5.5		3.2	
	4 Circuits		9.0		3.8	
	5 Circuits		10.5		4.4	
6 Circuits		12.0	5.0			
Al	PPR BY :Chard 202	4.6.13	CHKD BY: Corey 2024.6	.13	SPEC BY : Merry 2024.06.11	

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