LEOCO CORPORATION PRODUCTION SPECIFICATION No. S-97-2420 Rev. 10

2420 SERIES AND 2421 SERIES CONNECTOR

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	2420 SERIES AND 2421 SERIES CONNECTOR				
This product specification contains the test method, the general performance and requirements for interconnection systems connector with 2420 series socket 、2421 series header and 2453 series terminal.					
1.	Construction and dimensions shall be in accordance with the referenced drawings. 产品结构和尺寸依据所提的产品图面				
2.	Characteristics 特性				
	Current rating 额定				
	Voltage rating 额定电压:250V AC DC				
	Temperature rating 额定温度: -25℃ ~ +85℃				
	Applicable wire 适用的线: conductor construction size #22~#28				
3.	Electrical performar	nce 电气特性:			
ITEM 项目	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法及条件	REQUIREMENT 要求		
3-1	Contact Resistance 接触阻抗	It should be tested in accordance with method EIA-364-23	Initial : 20 mΩ max. After environmental tested: 40 mΩ max.		
3-2	绝缘电阻	It should be. tested in accordance with method EIA-364-21	Initial : 1000 MΩ min. After humidity tested: 500 MΩ min.		
3-3	Dielectric withstanding Voltage	Unmated connector shall be tested in accordance with method EIA-364-20	No evidence of breakdown and flashover,		
	耐电压	When the AC 800V rms for one minute applied between adjacent contacts.			
4.	Mechanical Performance	æ机械特性:			
ITEM 项目	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法及条件	REQUIREMENT 要求		
4-1	Crimp tensile Strength 铆合张力强度	Pulling load shall be applied between correctly crimped contact and wire at a constant speed. Pulling speed : 25 mm / minute	AWG #22 : 4.0 kgf min AWG #24 : 2.5 kgf min AWG #26 : 1.5 kgf min AWG #28 : 1.0 kgf min		
4-2	Contact insertion force 接触插入力	The force required to insert a contact into a housing Inserting speed: 25 mm / minute.	600 gf max		
4-3	Contact removal force 接触拔出力	Crimped contact mounted in a housing shall be pulled in an alignment at a constant speed of 25 mm / minute.	1.5 kgf min		
4-4	Post retention Force 保持力	The end of a post shall be pushed in a perpendicular to base housing at a constant speed of 25mm/minute.	1.0kgf min.		
4-5	Insertion force 插入力	Housing with contact mating header, at a constant speed of 25mm/minute.	700 gf max.		

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Item 项目	Description 内容	Test Method & Condition 测试方法及条件	Requirement 要求		
4-6	Withdrawal force 拔出力	Housing with contact mating header, Pull out from header at speed 25mm/minute.	150 gf min.		
4-7	Durability 耐久力	It should be tested in accordance with method EIA-364-09 Connector shall be subjected to 100 cycles Of insertion and withdrawal.	No defects. Contact resistance shall be 20 m Ω max.		
4-8	Vibration 振动性	The connector mated PCB shall be vibrated in accordance with method EIA-364-28 tested condition B. There shall be no current discontinuity longer than 1 microsecond during the test. Frequency:10-55-10 Hz/min. Amplitude: 1.52mm Period:2 hours for each direction.	No evidence of loosening of parts or electric discontinuity. Contact resistance less than twice of initial.		
5.	Environmental Perform	ance 环境特性:			
5-1	Humidity 耐湿性	The unmated connector shall be tested in accordance with method EIA-364-31 test procedure type I condition B. Temperature:40±2°C Humidity:90-95% (RH), Period:96 hours	No damage. Contact resistance: Less than twice of Initial. Insulation resistance: to pass paragraph .3-2. Dielectric withstanding voltage: to pass paragraph 3-3.		
5-2	Salt Spray 盐雾测试	connector shall be tested in accordance with method EIA-364-26 Temperature:35±2℃ Density: 5% in weight. Period:24 hours	No damage Contact resistance: Less than twice of initial.		
5-3	Solder ability 着锡性	Connector termination ends shall be checked for solder ability in accordance with method EIA-364-52 Solder temperature:245±5°C Immersion period:5±0.5sec.	No damage Minimum:95% of immersed area.		
5-4	Resistance to soldering heat 耐高温焊接	Specimen shall be mounted on PCB. Solder temperature: $260\pm5^{\circ}$ C Immersion period: 5 ± 0.5 sec.	Visual: No damage.		

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Item	Description	Test Method & Condition	Requirement			
5-5	Heat aging 耐高温性	Temperature:85±2℃ Period:96 hours	No damage. Contact resistance less than twice of initial.			
5-6	Low temperature 耐低温性	Period:96 hours	No damage. Contact resistance less t twice of initial.		less th	nan

6. 2420 Series and 2421 Series Mating force and unmating force:

	Uni	t:Kgf
Number of	Mating Force	Unmating Force
Circuits	Initial(max.)	Initial (min.)
2	3.5	0.4
3	4.5	0.5
4	5.5	0.6
5	6.0	0.7
6	6.5	0.8
7	7.5	0.9
8	7.5	1.0
9	8.5	1.1
10	8.5	1.2
11	10.0	1.3
12	10.5	1.4
13	10.5	1.5
14	11.0	1.6
15	11.5	1.7

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