LEOCO CORPORATION PRODUCTION SPECIFICATION No. S-96-5300-3

* 5300 F Series and 5300 M Series Connector System >

This product specification contains the test method, the general performance and requirements For wire to wire power connector with 5300 F series receptacle connector and mates with 5312 crimp terminal,5300 M series plug connector mates with 5311 crimp terminal.

1. Construction and dimensions shall be in accordance with the referenced drawings. 产品结构和尺寸依据所提供的产品图面.

2. Characteristics 特性:

Current rating 额定电流: 7A AC Voltage rating 额定电压: 250V DC

Temperature rating 额定温度: -25℃ ~ +105℃

Applicable wire 适用线材: conductor construction size #16 ~ #20

3. Electrical performance 电气特性:								
ITEM	DESCRIPTION	TEST METHOD & CONDITION	REQUIREMENT					
	内容	测试方法与条件	需求					
3-1	Contact Resistance	It should be tested in accordance with	Initial:20 m Ω max.					
	接触阻抗	method 3004.1 of MIL-STD-1344A.	After environmental					
			Test:40 mΩ max.					
3-2	Insulation Resistance	It should be tested in accordance with	Initial :1000 M Ω min.					
	绝缘阻抗	Method 3003.1 of MIL-STD-1344A. or	After humidity and					
		method 302,condition B of MIL-STD-202F	thermal shock test:					
			500M Ω min.					
3-3	Dielectric	Unmated connectors shall be tested in	No evidence of break-					
	Withstanding	Accordance with method 3001.1 of	Down and flashover					
	Voltage	MIL-STD-1344A when the AC 1500 V rms						
	耐电压	for one minute applied between adjacent						
		contacts.						
4. Mechanical Performance 机械特性:								
ITEM	DESCRIPTION	TEST METHOD & CONDITION	REQUIREMENT					
	内容	测试方法与条件	需 求					
4-1	Crimp	Pulling load shall be applied between	AWG #16: 12.0 kgf min					
	Tensile	Correctly crimped contact and wire at a	AWG #18: 10.0 kgf min.					
	Strength	constant speed. Pulling speed: 25 mm /	AWG #20: 8.0 kgf min.					
	铆合张力强度	minute.						
4-2	Contact Insertion	The force required to insert a contact into	1.00kgf max.					

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	铆合张力强度	minute.					
4-2	Contact Insertion	The force required to insert a contact into	1.00kgf max.				
	Force	a housing. Inserting speed: 25 mm /					
	接触插入力	minute.					
4-3	Contact removal	Crimped contact mounted in a housing	3.0 Kgf min.				
	Force	shall be pulled in an alignment at a					
	接触拨出力	constant speed of 25 mm / minute.					
4-4	Insertion Force	Housing with contact mating plug at a	1.5 kgf max				
	插入力	constant speed of 25 mm / minute.					
4-5	Withdrawal Force	Housing with contact mating header, Pull	350 gram min.				
	拨出力	out from header at speed 25 mm / minute.					
4-6	Durability	It should be tested in accordance with	No defects.				
	耐久性	method 2016 of MIL-STD-1344A.	Contact resistance shall				
		Connector shall be subjected to 100	be 20mΩ max				
		cycles					
		of insertion and withdrawal					

Sheet: 1/2

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ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	R	REQUIREMENT 需 求	
4-7	Vibration 振动测试	The connector mated PCB shall be vibrated in accordance with method 2005. of MIL-STD-1344A test 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.	loose elect Cont	No evidence of loosening of parts or electric discontinuity. Contact resistance less than twice of initial.	
5. Envir	onmental Performand	ce 环境特性:			
ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	R	EQUIREMENT 需 求	
5-1	Humidity 耐湿性	The unmated connector shall be tested in accordance with method 1002.2 of MIL-STD-1344A test procedure type I condition B. Temperature: 40±2 °C Humidity: 90 ~ 95 % (RH) Period: 96 hours.	Containsulation para		
5-2	Thermal shock 冷热冲击	Connector shall be subjected to thermal shock cycling in accordance with method 107E.of MIL-STD-202F condition B.one cycle consists of:-25°C for 30 minutes. +105°C for 30 minutes. Times of cycle:25 cycles.	Contain Than Insulate	mage. act resistance less twice of initial. ation resistance: ss para. 3-2. ctric withstand- oltage: to pass 3-3	
5-3	Salt Spray 盐雾试验	Connector shall be tested in accordance with method 1001.1 of MIL-STD-1344A condition B .Temperature :35±2 °C Density:5% in weight. Period:48 hours	Cont	damage. act resistance less twice of initial	
5-4	Solderability 着锡性	Connector termination ends shall be checked for solderability in accordance with method 208 of MIL-STD-202F. Solder temperature: 245±5°C Immersion period:5±0.5 sec.		mage. um:95% of sed area.	
5-5	Resistance to soldering heat 附着耐热性	Specimen shall be mounted on PCB. Solder temperature : 260±5°C Immersion period:5±0.5 sec.		mage and nation.	
APPR BY:		CHKD BY: SPE	C BY:		

Sheet: 2/2