

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-96-5700	REV	3
-------------------	--------------------------	-----	-----------	-----	---

* 5700 F Series and 5700 M Series Connector System *

This product specification contains the test method, the general performance and requirements For wire to wire power connector with 5700 F series receptacle connector and mates with 5714 crimp terminal,5700 M series plug connector mates with 5713 crimp terminal.

1. Construction and dimensions shall be in accordance with the referenced drawings.

产品结构 and 尺寸依据所提供的产品图面.

2. Characteristics 特性:

Current rating 额定电流: 3A AC

Voltage rating 额定电压: 250V DC

Temperature rating 额定温度: -25°C ~ +85°C

Applicable wire 适用线材: conductor construction size #24 ~ #28

3. Electrical performance 电气特性:

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求
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 Test:40 mΩ max.
3-2	Insulation Resistance 绝缘阻抗	It should be tested in accordance with Method EIA-364-21	Initial :1000 MΩ min. After humidity and thermal shock test: 500MΩ min.
3-3	Dielectric Withstanding Voltage 耐电压	Unmated connectors shall be tested in Accordance with method EIA-364-20 when the AC 1000 V rms for one minute applied between adjacent contacts.	No evidence of break-Down and flashover

4. Mechanical Performance 机械特性:

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求
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 #24: 2.5kgf 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.	1.05kgf max.
4-3	Contact removal Force 接触拨出力	Crimped contact mounted in a housing shall be pulled in an alignment at a constant speed of 25 mm / minute.	1.5Kgf min.
4-4	Insertion Force 插入力	Housing with contact mating plug at a constant speed of 25 mm / minute.	See parameters 6
4-5	Withdrawal Force 拨出力	Housing with contact mating header, Pull out from header at speed 25 mm / minute.	See parameters 6
4-6	Durability 耐久性	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 20mΩ max

LEOCO CORPORATION		PRODUCTION SPECIFICATION		No.	S-96-5700	REV	3
-------------------	--	--------------------------	--	-----	-----------	-----	---

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求
4-7	Vibration 振动测试	The connector mated PCB shall be vibrated in accordance with method EIA-364-28. 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 Performance 环境特性:

Item	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求
5-1	Humidity 耐湿性	The unmated connector shall be tested in accordance with method EIA6364-31. Temperature: 40±2 °C Humidity: 90 ~ 95 % (RH) Period: 96 hours.	No damage. Contact resistance less Than twice of initial. Insulation resistance: to paragraph. 3-2. Dielectric withstand ing voltage: to paragraph 3-3
5-2	Thermal shock 冷热冲击	one cycle consists of: -25°C for 30 minutes. +85°C for 30 minutes. Times of cycle:25 cycles.	No damage. Contact resistance less Than twice of initial. Insulation resistance: to paragraph. 3-2. Dielectric withstand ing voltage: to paragraph 3-3
5-3	Salt Spray 盐雾试验	Connector shall be tested in accordance with method EIA-364-26 .Temperature :35±2 °C Density:5% in weight. Period:16 hours	No damage. Contact resistance less than twice of initial
5-4	Solderability 着锡性	Connector termination ends shall be checked for solderability in accordance with method EIA-364-252. Solder temperature : 245±5°C Immersion period:5±0.5 sec.	No damage. Minimum:95% of immersed 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.	No damage and deformation.

6.Mating force and unmating force 插拔力:

Unit :Kgf

Number of circuits	Mating Force	Unmating Force(min.)		Number of circuits	Mating Force	Unmating Force(min.)	
	Initial max.	Initial	30th		Initial max.	Initial	30th
Single	0.8	0.3	0.1	6	4.8	1.8	0.6
2	1.60	0.60	0.2	7	5.6	2.1	0.7
3	2.4	0.90	0.3	8	6.4	2.4	0.8
4	3.2	1.2	0.4	9	7.2	2.7	0.9
5	4.0	1.5	0.5	10	8.0	3.0	1.0

APPR BY:CHARD	CHKD BY:ANGEL	SPEC BY: smile 2014.10.22
---------------	---------------	---------------------------