

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-96-2065-3
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\* 2065 SERIES CONNECTORS SYSTEM \*

This product specification contains the test method ,the general performance and requirements for interconnection system connector ,with 2065&2066 series socket , 2016,2018&2028 series header & 2065 series terminal.

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

产品结构及尺寸依据所提供的图面

2. Characteristics 特性:

Current rating 额定电流: 3A AC,DC

Voltage rating 额定电压:250V AC,DC

Temperature rating 额定温度: -25°C~+105°C

Applicable wire 适用的线: conductor construction size #26~#30

3.Electrical Performance 电气特性:

ITEM 项目	DESCRIPTION 内容	TEST METHODS&CONDITION 测试方法及条件	REQUIREMENT 需求
3-1	Contact Resistance 接触阻抗	It should be tested in accordance with method 3004.1 of MIL-STD-1344A.	Initial:20m Ω max.After environmental test:40 m Ω max
3-2	Insulation Resistance 绝缘电压	It should be tested in accordance with method 3003.1 of MIL-STD-1344A.	Initial:1000 m Ω min. After humidity and thermal shock test: 500mΩ min
3-3	Dielectric Withstanding Voltage 耐电压	Unmated connector shall be tested in accordance with method 3001.1 of MIL-STD-1344A When the AC 500V rms for one minute applied between adjacent contacts.	No evidence of breakdown and flashover

4. Mechanical Performance 机械特性:

ITEM 项目	DESCRIPTION 内容	TEST METHODS&CONDITION 测试方法及条件	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:25mm/minute	AWG #26: 2.7 kgf min. AWG #28: 1.5 kgf min. AWG #30: 1.2 kgf min.
4.2	Contact Insertion force 接触插入力	The force required to insert a contact into a housing. Inserting speed:25mm/minute	1.0 kgf 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 25mm/minute.	1.0 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.	1.0 kgf min
4.5	Insertion force 插入力	Housing with contact mating header at a constant speed of 25mm/minute.	2065TPBU001 400gram max 2065TPBU000 300gram max
4.6	Withdrawal force 拔出力	Housing with contact mating header , pull out from header at speed 25mm/minute	2065TPBU001 80 gram min 2065TPBU000 40gram min
4.7	Durability 耐久性	It should be tested in accordance with method 2016 of MIL-STD-1344A, Connector shall be subjected to 100 cycles of insertion and withdrawal.	No defects. Contact resistance shall be 20 m Ω max

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4.8	Vibration 摇摆测试	The socket mated header shall be vibrated in accordance with method 2005.1 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.	No evidence of loosening of parts or electric discontinuity. Contact resistance less than twice of initial.	
5. Environmental Performance 环境特性 :				
ITEM 项目	DESCRIPTION 内容	TEST METHODS&CONDITION 测试方法及条件	REQUIREMENT 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℃ Humidity:90~95%(RH) Period:96 hours.	No damage. Contact resistance less than twice of initial. Insulation resistance:ivchghghdara.3-2 Dielectric withstanding voltage :to pass para 3-3	
5.2	Salt spray 盐雾测试	Connector shall be tested in accordance with method 1001.1 of MIL-STD-1344A condition B. Temperature : 35±2℃ Density:5% in weight. Period:48 hours.	No damage. Contact resistance less than twice of initial.	
5.3	Resistance to soldering heat 耐高温焊接	Specimen shall be mounted on PCB . Solder temperature :260±5℃ Immersion period : 5±0.5 sec.	No damage and deformation	

## 6. 2065Series Mating force and unmating force:

Unit:Kgf

Number of Circuits	Mating Force	Unmating Force
	Initial(max.)	Initial (min.)
Single	0.36	0.04
2x2	1.44	0.16
2x3	2.16	0.24
2x4	2.88	0.32
2x5	3.60	0.40
2x6	4.32	0.48
2x7	5.04	0.56
2x8	5.76	0.64
2x9	6.48	0.72
2x10	7.20	0.80
2x11	7.92	0.88
2x12	8.64	0.96
2x13	9.36	1.04
2x14	10.08	1.12
2x15	10.80	1.20
2x16	11.52	1.28
2x17	12.24	1.36
2x18	12.96	1.44
2x19	13.68	1.52
2x20	14.40	1.60
2x21	15.12	1.68
2x22	15.84	1.76
2x23	16.56	1.84
2x24	17.28	1.92
2x25	18.00	2.00
2x26	18.72	2.08
2x27	19.44	2.16
2x28	20.16	2.24
2x29	20.88	2.32
2x30	21.60	2.40

## 6. 2065Series Mating force and unmating force:

Unit:Kgf

Number of Circuits	Mating Force	Unmating Force
	Initial(max.)	Initial (min.)
2x31	22.32	2.48
2x32	23.04	2.56
2x33	23.76	2.64
2x34	24.48	2.72
2x35	25.20	2.80
2x36	25.92	2.88
2x37	26.64	2.96
2x38	27.36	3.04
2x39	28.08	3.12
2x40	28.80	3.20

APPR BY:

CHKD BY:

SPEC BY: