

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-96 -2540	REV	6
<p>* 2540 Series Insulation Displacement Connector System *</p> <p>This product specification contains the test method, the general performance and requirements for 2.54mm*2.54mm(.100"*.100")IDC connector socket, for 1.27mm(.050") center ribbon cable</p>					
<p>1. Construction and dimensions shall be in accordance with the referenced drawings. 产品结构 and 尺寸依据所提的产品图面</p> <p>2. Characteristics 特性: Current rating 额定电流: 1 A AC, DC Voltage rating 额定电压: 250V AC,DC Temperature rating 额定温度: -40°C ~ +105°C Applicable wire 适用的线: conductor construction size #28</p> <p>3. Electrical performance 电气特性:</p>					
Item	Description	Test Method & Condition	Requirement		
3-1	Contact Resistance 接触阻抗	It should be tested in accordance with method EIA-364-23	20 mΩ. max.		
3-2	Insulation Resistance 绝缘电阻	It should be tested in accordance with method EIA-364-21	1000 MΩ. min.		
3-3	Dielectric Withstanding Voltage 耐电压	Unmated connector shall be tested in accordance with method EIA-364-20 When the AC 1000V rms for 1 minute applied between adjacent contacts.	No evidence of break- Down and flashover		
4. Mechanical Performance 机械特性 :					
Item	Description	Test Method & Condition	Requirement		
4-1	Insertion Force 插入力	Insertion connectors at the speed rate of 25 mm/minute.	0.3kgf/pin max		
4-2	Withdrawal Force 拔出力	Withdrawal connectors at the speed rate of 25 mm/minute.	0.015kgf/pin min		
4-3	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 20 mΩ max.		
4-4	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/minute. 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.		

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5. Environmental Performance 环境特性 :							
Item	Description	Test Method & Condition			Requirement		
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: $40 \pm 2^{\circ}\text{C}$ Humidity: 90-95% (RH), Period: 96 hours			No Damage Contact Resistance: Less than twice of Initial. Insulation Resistance: to pass para 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 EIA-364-26 Temperature: $35 \pm 2^{\circ}\text{C}$ Density: 5% in weight. Period: 24 hours.			No damage. Contact resistance less than twice of initial.		
5-3	Thermal shock 热冲击性测试	Connector shall be subjected to thermal shock cycling in accordance with method EIA-364-32. one cycle consists of: -25°C for 2 hours, $+85^{\circ}\text{C}$ for 2 hours Times of cycle: 5 cycles.			No damage Insulation resistance: to pass para 3-2 Dielectric withstanding voltage: to pass para 3-3		
5-4	Solder ability 着锡性	Connector termination ends shall be checked for solder ability in accordance with method EIA-364-252. Solder temperature: $245 \pm 5^{\circ}\text{C}$ Immersion period: 5 ± 0.5 sec.			No damage. Minimum: 95 % of immersed area.		
5-5	Resistance to Soldering Heat 耐高温焊接	Specimen shall be mounted on PCB. Solder temperature: $260 \pm 5^{\circ}\text{C}$ Immersion period: 5 ± 0.5 sec.			No damage and deformation.		
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