

LEOCO CORPORATION		PRODUCTION SPECIFICATION		No.	S-96 -2540	REV	6
<div>*2540 Series Insulation Displacement Connector System*</div> <div>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</div>							
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							
2. Characteristics 特性: <div>Current rating 额定电流: 1 A AC, DC</div> <div>Voltage rating 额定电压: 250V AC,DC</div> <div>Temperature rating 额定温度: -40℃ ~ +105℃</div> <div>Applicable wire 适用的线: conductor construction size #28</div>							
3. Electrical performance 电气特性:							
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 m Ω 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±2℃ 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±2℃ 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℃ for 2 hours, +85℃ for 2 hours Times of cycle: 5 cycles.			No damage Insulation resistance: to pass para3-2 Dielectric withstanding voltage: to pass para3-3		
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±5℃ 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±5℃ Immersion period:5±0.5sec.			No damage and deformation.		
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