

LEOCO CORPORATION		PRODUCTION SPECIFICATION		No.	S-90-3963	Rev.	3
* 3963 SERIES CONNECTORS SYSTEM *							
This specification describes the characteristics, test condition and particular sanctions applicable to LEOCO 3963 series PCB Mounted connector socket.							
1.ELECTRICAL PERFORMANCE 电气特性:							
	Item 内容	Test Condition 测试条件			Requirement 需 求		
1-1	Rated voltage and current 额定电压和额定电流	-			AC 250V 5A DC 250V 5A		
1-2	Contact Resistance 接触阻抗	Dry circuit of DCmv 50mA max			20 miliohms max		
1-3	Dielectric Withstanding Voltage 耐电压	When applied AC1500 V 1 minute between adjacent terminal			No change		
1-4	Insulation Resistance 绝缘电阻	When applied dc500V between adjacent terminal or ground			1000 Megaohms min		
2. Mechanical Performance 机械特性:							
	Item 内容	Test Condition 测试条件			Requirement 需 求		
2-1	Insertion force 插入力	Connector socket with terminal mating header at speed 25+/-3mm per minute.(housing lock should be removed before test)			See parameters 6		
2-2	Withdrawal force 拨出力	Connector socket with terminal pull out from header test under same condition as above			See parameters 6		
2-3	Terminal retention force 保持力	Pull out speed 25+/-3mm per minute from connector housing			3.0kgf(min)		
3.Environmental Performance 环境特性:							
	Item 内容	Test Condition 测试条件			Requirement 需 求		
3.1	Temperature rise 温升测试	Then carried the rated current			30 Deg.C max		
3.2	Vibration 振动性	1.5mm 10-55-10HZ/minute each 2 hours for X,Y and Z directions			Discontinuity :1 micro second max. Appearance: no damage		
3.3	Shock 冲击性	50G,each 3 times for X,Y&Z directions applying 0-1 A-DC			Discontinuity:1 micro second max. Appearance: no change		

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3.4	Solderability 着锡性	Soldering time:5+/-0.5 second. Soldering pot:245+/-5 Deg C	Mininum:95% of immersed area.				
3.5	Resistance to soldering heat 附着耐热性	Soldering time:5+/-0.5 second. Soldering pot:260+/-5 Deg C	No damage				
3.6	Heat aging 高温老化试验	85+/-2 Deg.C;500 hours	No damage				
3.7	Humidity 耐湿性	40+/-2 Deg.C,90-95% RH,96 HRS Measurement must be taken within 30 min. after tested	Contact resistance: Less than twice of initial.				
			Dielectric strength: to pass para1-3				
			Appearance: No damage				
3.8	Temperature cycling 温度循环测试	One cycle consists of: (1)-25+/-3 Deg.C 30min(2)Room Temp.10-15 min(3)85+/-2 Deg.C 30 Min(4)Room temp.10-15 min	Appearance: No damage				
			Contact resistance: Less than twice of initial.				
3.9	Slat spray 盐雾试验	Temperature:35+/-3 Deg.C Solution:5+/-1% Spray time :24 hours Measurement must be taken after water rince.	Appearance: No damage				
			Contact resistance: Less than twice of initial.				
3.10	S02 gas 耐酸性	24 hours in sulfur dioxide gas(s02)50+/-5PPMat 40+/-2 deg.C	Contact resistance: Less than twice of initial				
3.11	NH4 gas 耐碱性	40 minutes in saturated ammonia gas by 28% liquid ammonia at 25+/-2 DEG.C	Appearance: No damage				
			Contact resistance: Less than twice of initial				
4.AMBIENT TEMPERATURE RANGE 温度范围: -25 ° C TO +105 ° C							
5.CONSTRUCTION AND DIMENTIONAL 结构与尺寸 :See attached drawing.							

6.INSERTION FORCE(I.F) & WITHDRWAL FORCE(W.F) (kgf)

Number of circuits	I.F.(MAX.)	W.F.(min,)			
	Initial	Initial	6th	30th	60th
2	1.65	0.70	0.70	0.50	0.35
3	2.47	1.00	0.98	0.63	0.46
4	3.59	1.40	1.26	0.76	0.58
5	4.40	1.90	1.85	1.20	1.00
6	5.42	2.20	2.13	1.33	1.12
7	6.33	2.60	2.52	1.57	1.33
8	7.25	3.00	2.90	1.80	1.55
9	8.17	3.40	3.28	2.03	1.77
10	9.08	3.80	3.87	2.27	1.98
11	10.00	4.20	4.05	2.50	2.20
12	10.92	4.60	4.43	2.73	2.42
13	11.83	5.00	4.82	2.97	2.63
14	12.75	5.40	5.20	3.20	2.85
15	13.67	5.80	5.58	3.43	3.07

7.INSERTION FORCE(I.F) & WITHDRWAL FORCE(W.F) WITH LOCKING (kgf)

Number of circuits	I.F.(MAX.)	W.F.(min,)	
	Initial	Initial	6th
2	2.40	3.10	2.50
3	3.10	3.40	3.10
4	3.70	3.60	3.40
5	4.30	7.00	5.00
6	4.80	7.40	5.50
7	5.50	7.90	6.10
8	6.50	8.40	6.70
9	7.70	9.20	7.20
10	8.60	9.80	8.50

APPR BY:CHARD

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