## LEOCO CORPORATION | PRODUCTION SPECIFICATION | S-90-2405-1 No. ☆ 2405 SERIES CONNECTOR SYSTEM ☆ This specification describes the characteristics, test condition and particular sanctions applicable to LEOCO 2405 series PCB Mounted Connector Connector. 1.ELECTRICAL PERFORMANCE 电气特性: DESCRIPTION TEST CONDITION REQUIREMENT ITEM 项目 内容 测试条件 需求 AC 250V Rated voltage and 3A 1.1 DC 250V 3A current 额定电压和电流 Contact resistance Dry circuit of DC 50mv 50ma max 1.2 20 miliohms max 接触阻抗 When applied DC1000V 1 Dielectric strength 1.3 minute between adjacent terminal 耐电压 No change When applied DC500V between adjacent 1.3 Insulation resistance terminal or ground 10000 Mega ohms min 绝缘电阻 2. Mechanical Performance 机械特性: REQUIREMENT DESCRIPTION TEST METHODS&CONDITION ITEM 项目 测试方法及条件 内容 需求 Connector socket with terminal mating Insertion force 2.1 header at speed 25+/-3 mm 插入力 See parameters minute.(housing lock should be removed before test ) Connector socket with terminal pull out Withdrawal force 2.2 from header test under same condition 拔出力 See parameters 6 as above Pull out speed 25+/-3 mm per minute 2.3 Terminal retention from connector housing force 1.5 kgs (min) 端子保持力 3.Environmental performance 环境特性: DESCRIPTION ITEM TEST CONDITION REQUIREMENT 项目 内容 测试条件 需求 Temperature rise Then carried the rated current 30 Deg. C max 3.1 升温测试 3.2 Vibration 1.5mm 10-55-10HZ/minute each 2 hours | Discontinuity: 1 micro for X,Y and directions second max. appearance: 振动性 no damage 3.3 Shock 50g each 3 times for X,Y&Z directions Discontinuity: 1 micro appling 0-1 A-DC second max. appearance: 冲击测试 no damage Miniunm:70% of immersed 3.4 Sloderability Soldering time:5+-/0.5 second Soldering pot:245+/-5 deg c 着锡性 area. Soldering time:5+-/0.5 second Resistance to 3.5 No damage soldering heat Soldering pot:260+/-5 deg c 附着耐热性

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3.6	Heat aging 热老化测试	85+/-2 deg.c.500 hours	No dai	mage
3.7	Humidity 耐湿性	40+/-2 deg .c 90-95% RH,96 HRS measurement must be taken within 30 min .after tested	than to Dielec para 1	wice of initial. tric strength : to pass
3.8	Temperature cycling 温度循环测试	One cycle consists of : (1)-25+/-3 deg.lc 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	Salt spray 盐雾测试	Temp:35+/-3 deg.c Solution: 5+/-1% Spray time:48+/-4 hours. Measurement must be taken after water rince.	Contacthan to	ct resistance: less wice of initial
3.10	SO2 gas 耐酸性	24 hours in sulfur dioxide gas (so2) 50+/-5PPM at 40+/-2 deg. c		ct resistance: less wice of initial
3.11	NH4 gas 耐碱性	40 minutes in saturated ammonia gas by 28% liquid ammonia at 25+/-2 deg .c	Conta	rance :no damage ct resistance: less wice of initial

4.AMBIENT TEMPERATURE RANGE 温度范围: -25 TO +85 DEGREE C

<sup>5.</sup>CONSTRUCTION AND DIMENTIONAL 结构与尺寸:SEE ATTACHED DRAWING.

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6. insertion force (I.F)& withdrawal force (W.F)

Number of	IF(max)	WF(min)			
circuits	Initial	Initial	6th	30th	60th
2	0.85	0.25	0.20	0.15	0.10
3	1.32	0.28	0.23	0.23	0.18
4	1.69	0.41	0.36	0.31	0.26
5	1.95	0.65	0.60	0.40	0.35
6	2.66	0.75	0.68	0.48	0.42
7	3.27	0.95	0.86	0.66	0.59
8	3.88	1.15	1.04	0.84	0.76
9	4.49	1.35	1.22	1.02	0.93
10	5.00	1.65	1.50	1.30	1.20
11	5.71	1.75	1.58	1.38	1.27
12	6.32	1.95	1.76	1.56	1.44
13	6.93	2.15	1.94	1.74	1.61
14	7.54	2.35	2.12	1.92	1.78
15	8.15	2.55	2.30	2.10	1.95
16	8.76	2.75	2.48	2.28	2.12
17	9.37	2.95	2.66	2.46	2.29
18	9.98	3.15	2.84	2.64	2.46
19	10.59	3.35	3.02	2.82	2.63
20	11.20	3.55	3.20	3.00	2.80

APPR BY:	CHKD BY:	SPEC BY: