

PANEL CUT-OUT

SPECIFICATION

A: MATERIAL:

- 1. HOUSING: PBT(BLACK), UL 94V-0
- 2. PIN & TERMINAL: COPPER ALLOY, TIN PLATED

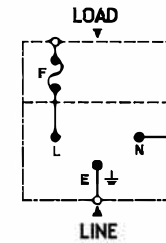
B: CHARACTERISTICS:

- 1. RATING: 10A 250V~ UL, VDE, KC, CCC
- 2. INSULATION RESISTANCE: 100MΩ MIN, AT 500V DC
- 3. ELECTRIC STRENGTH: AC 2000V FOR ONE MINUTE

C: APPROVALS:

UL, CUL, VDE, KC & CCC

D: DIAGRAM:



Certificate No.	
UL & CUL	E475637
VDE	40032734
CCC	2015010204831108
KC	SU04162-13003

E			
D			
C			
B			
A	2015.11.11	RELEASE	NEW REVISION
REV.	DATE	DOCUMENT	DESCRIPTION

东莞市德沃电子科技有限公司 Dongguan Dewo Electronics Technology Co., Ltd.		PART NO.: HC-99-F1(S02)	NAME: AC INLET 3P+FUSE HOLDER (SCREW-ON)
TOLERANCE UNLESS OTHERWISE MARKED DIMENSION: .000 : ±0.1 .00 : ±0.2 .0 : ±0.3		MATERIAL: SEE ABOVE	SPEC.: IEC 60320-1, C14 IEC 60127-6
ANGULAR: ±3'		APPROVED	CHECKED
UNIT: mm		DESIGNER	NOTE:
SCALE: 1 : 1		Peter	Double
SHEET: 1 of 1		Shawn	JOB NO.: S99-0030

东莞市德沃电子科技有限公司 Dongguan Dewo Electronics Technology Co., Ltd.		文件编号	D99-1002
		版次	B版
PRODUCT SPECIFICATION 产品规格书		发行日期	2018/07/16
		页次	第1页 共3页
PART No.: HC-99-F Series AC SOCKET WITH FUSEHOLDER			
产品料号: HC-99-F系列加保险丝插座			
1. GENERAL (一般事项)			
1.1	Application 应用范围	This specification applies to AC Inlet 3P Socket for case mount of the following rated for Cold condition,for class I equipment only,in accordance of IEC 60320,GB17465,The pins temperature should not exceed to 70℃. 本规范适用于冷环境下一类设备之3P插座, 依照IEC60320、GB17465等标准要求, 插座内插销温度不可超过70℃	
1.2	Electrical Ratings 额定电流及电压	Socket(插座)	UL & CUL : 10A 250 VAC VDE , KC & CCC : 10A 250 VAC
		Fuse(保险丝)	6.3A 250VAC,2.5W
1.3	Materials 材质	Base: PBT,UL 94V-0	基座: PBT料, 防火等级: UL 94V-0
		Pin: Copper alloy,Tin plated	插销: 铜合金, 表面镀锡
		Terminals: Copper alloy,Tin plated	端子: 铜合金, 表面镀锡
1.4	Construction 结构	See the figure 见附图	
1.5	Operating Temperature 产品使用温度	Max. 105℃ (UL) 最大105℃ (UL)	
2. ELECTRICAL CHARACTERISTICS (电气性能规格)			
ITEM 项目		TEST CONDITIONS 测试条件	STANDARDS 标准
2.1	Contact Resistance 接触电阻	Mate connectors,apply maximum voltage of 5v and a current of 100mA. 将连接器匹配后, 以测试电压最大5V, 电流最大100mA IEC60320-1,Section 15 & IEC60127-6	30mΩ Max. 最大30毫欧
2.2	Insulation Resistance 绝缘阻抗	500 VDC applied for one minute between adjacent terminals and between adjacent terminals and base. 测试电压500VDC, 测试时间1分钟, 在端子与端子及端子与基座之间 IEC60320-1,Section 15 & IEC60127-6,Section 11	100MΩ Min. 100兆欧以上
2.3	Electric Strength 耐电压强度	A)2,000 VAC being applied between all terminals for one minute. (Max. Leakage current:0.5mA) B)3,000 VAC being applied between all terminals and base for one minute.(Max. Leakage current:0.5mA) 在所有端子与端子之间施加2,000VAC, 在所有端子与基座之间施加3,000VAC, 分别测试1分钟(最大漏电流0.5mA) IEC60320-1,Section 15	Without damage to parts arcing or breakdown 无绝缘破坏等异常
2.4	Temperature Rise 温升测试	A sustained dissipation 2.5W/6.3A is passed through the specimen,measure 3 successive readings,at least 10 min apart,unit temperature stability. 样品持续施加2.5W/6.3A电流, 在温度稳定后量测3次数据, 中间最少间隔10分钟 IEC60127-6,Section 13	85℃ Max. 温度85℃以下

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3. MECHANICAL CHARACTERISTICS (机械性能规格)			
ITEM 项目		TEST CONDITIONS 测试条件	STANDARDS 标准
3.1	Inserting Force 插入力	Measurement shall be made after connecting and disconnecting using standard plug gauge 10 times. 使用标准的插头做10次插拔后测试	Between 10N~50N 10N到50N之间
	Extracting Force 拔出力	Measurement shall be made after connecting and disconnecting using standard plug gauge 10 times. 使用标准的插头做10次插拔后测试	Between 10N~50N 10N到50N之间
3.2	Pull force of terminal 端子推出力	The specimen shall be heated to temperature of 70℃ for 1 hour, Then a static load of 60N(6.12Kgf) is applied to the pins for one minute. 加热样品至70度维持1小时，然后施加60N(6.12Kgf)于插销持续1分钟 IEC60320-1,Section 13	No movement exceeding 2.5mm 位移在2.5毫米以下
3.3	Driving strength of mounting holes 安装孔强度	Using a self-tapping screw of M3*6 or M3*8 through the mounting holes than driving screws to the case in a troque of 5~6Kgf. 将M3*6或M3*8螺丝穿过产品安装孔，锁入面板螺丝孔内，锁入力：5~6Kgf	Applying a troque of 5~6Kgf to screws, No damage is appeared for holes 安装孔无破裂
3.4	Impact test 冲击测试	Impact energy of 0.5 J shall be applied to the insulation material for 12 bows. 0.5焦耳的冲击能量施加于绝缘材料12次 IEC60320-1,Section 23	No damage 样品无任何损伤
3.5	Ball-Pressure test 球压测试	The specimen shall be stored at a temperature of 125±2℃, a steel ball of 5mm diameter is pressed against the surface of the specimen with a force of 20N(2.04Kgf) for 1 hour. 产品放在125±2℃的加热室内，用一直径5mm的铁球，作用力20N(2.04Kgf)，对产品表面施压1小时 IEC60320-1,Section 24	Measure the diameter of the impression shall not exceed 2mm 压痕直径最大2毫米
4. DURABILITY (耐久性)			
ITEM 项目		TEST CONDITIONS 测试条件	STANDARDS 标准
4.1	Solderability test 焊锡性	The top of the terminals shall be dipped 2mm in the solder bath of 250±5℃ for 3~5 seconds or manual soldering at 380±5℃ for 2~3 seconds. 端子顶部被浸入锡焊池中2mm深，温度为250±5℃，时间为3~5秒，或手焊锡温度为380±5℃，时间为2~3秒 IEC60068-2	The area of soldering should be over 90% 着锡面积超过90%
	Resistance to soldering heat test 耐焊性	The top of the terminals shall be dipped 2mm in the solder bath of 260±5℃ for 3~5 seconds or manual soldering at 400±5℃ for 2~3 seconds. 端子顶部被浸入锡焊池中2mm深，温度为260±5℃，时间为3~5秒，或手焊锡温度为400±5℃，时间为2~3秒 IEC60068-2	(1)Satisfy 2.1 (2)Satisfy 2.2 (3)Satisfy 2.3 (4)Satisfy 3.2 (5)Without deformation of case or excessive looseness of teminals exectrical characteristics shall be satisfied (1)满足2.1要求 (2)满足2.2要求 (3)满足2.3要求 (4)满足3.2要求 (5)基座及其它结构无变形情况

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4.2	Life test 寿命测试	Without load: Connection and disconnection shall be made with the mating plugs and jacks for 5,000 cycles at a speed of 20 cycles/Min. 无负载: 将结合了的的标准插头(尽量要靠近中心)以每分钟20次的速度,进行5,000次插入和拔出 IEC60320-1,Section 20	(1)Contact resistance shall be 60mΩ Max. (2)Mechanical and electrical characteristics shall be satisfied (1)接触电阻最大60毫欧 (2)其它满足机械及电器性能		
4.3	Resistance to heat test 耐热测试	The AC socket shall be stored at a temperature of 80±2℃ for 96 hours,and then it shall be subjected to the controlled recovery conditions for 1 hour after which measurement shall be made. 放置在温度80±2℃中96小时后,再置于正常室温中1小时来测试	(1)Satisfy 2.1 (2)Satisfy 3.2 (3)Without deformation of case or excessive looseness of teminals exectrical characteristics shall be satisfied (1)满足2.1要求 (2)满足3.2要求 (3)基座及其它结构无变形情况		
4.4	Resistance to moisture test 防潮测试	For Socket only(IEC60320-1,Section 14): Put in the environment of temperature 20~30℃ & relate humidity 91~95%RH 168 hours,then moved to normal environment 1 hour for test. 放置在温度20~30℃,相对湿度91~95%的环境中168小时后,再置于正常室温中1小时来进行测试 For Fuseholder only(IEC60127-6,Section 11): Put in the environment of temperature 20~30℃ & relate humidity 91~95%RH 48 hours,then moved to normal environment 1 hour for test. 放置在温度20~30℃,相对湿度91~95%的环境中48小时后,再置于正常室温中1小时来进行测试	(1)Satisfy 2.1 (2)Satisfy 3.2 (3)Without deformation of case or excessive looseness of teminals exectrical characteristics shall be satisfied (1)满足2.1要求 (2)满足3.2要求 (3)基座及其它结构无变形情况		
4.5	Resistance to cold test 耐寒测试	The specimen shall be stored at a temperature of -20±2℃ for 96 hours,and then the specimen shall be subjected to the controlled recovery conditions for 1 hour,after which measurement shall be made. The measurement shall be made within 1hour after the recovery period. 在温度-20±2℃放置96小时试验后,再置于常温常湿中1小时内进行测试 IEC60068-2	(1)Clause 4.1 shall be satisfied (2)Contact resistance:30mΩ Max. (3)Deformation or cracks shall not be recognized in molded part (1)必须满足4.1项要求 (2)接触阻抗最大30毫欧 (3)塑胶部分不能变形或破裂		
备注: Note 1.应避免使用液态焊剂和化学药品(如酒精,丙酮,天那水,汽油等溶液),否则易腐蚀. Use of water-soluble soldering flux shall be avoided because it may cause corrosion 2.贮存期限不超过六个月 The storage period shall not exceed six months 3.如需长期储存超过6个月以上,应用塑料袋将产品密封并放置干燥剂,且放在阴暗干燥处,以免氧化和晰出 If stored more than 6 months ,Production must be in a plastic bag and stored in a place of cool and dark					
B	2018/07/16	增加产品贮存的注意事项	Peter	Double	Shawn
A	2015/07/07	初次发行	Peter	Double	Shawn
REVISION 版本	DATE OF MODIFICATION 修改日期	REVISION CONTENTS 修改内容	APPROVE 核准	CHECK 审核	DESIGN 制做