

Data Sheet

PRODUCT SPECIFICATION

TITLE : APPLIANCE OUTLET STANDARD SHEET F

Part NO.: R-302SN Series.

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1. Scope. 應用範圍:

This specification applies to APPLIANCE OUTLET 【STANDARD SHEET F】 for case mount of the following rated for Cold condition, for class I equipment only, in accordance of IEC 60320-1 & IEC 60320-2-2, UL 498 and CSA C22.2 No.182.3-M1987, The temperature rise of terminals and contacts shall not exceed 45K.

本規範適用於冷環境一級設備之母式插座【標準 SHEET F】，依照 IEC 60320-1 & IEC 60320-2-2, UL 498 和 CSA C22.2 No.182.3-M1987, 插座與插梢接觸之溫升不可超過 45K.

2. Electrical Rating. 額定電流 / 電壓:

NORTH AMERICA	北美：	15A	250V AC.
EUROPE	歐洲：	10A	250V AC
CHINA	中國：	10A	250V AC

3. Materials and Construction. 材質與結構.

3.1 Materials 材質.

Frame : PA66 架構：熱塑性塑膠、聚醯胺

Pin & Terminals : Copper alloy, Sn plated. 插梢與端子：材質-黃銅，電鍍-錫.

3.2 Construction. 結構.

See the figure. 見附圖.

3.3 Operating Temperature. 操作溫度.

15°C to 35°C.

3.4 Performance and Procedures. 性能與程序.

Socket shall be designed to meet the electrical, mechanical and environmental performance requirements

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插座必須設計滿足電氣、機械及環境測試性能需求，詳細規格說明於第 3-5 頁

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4. Test Requirement and Procedures. 測試條件與程序. [Electrical Requirements 電氣特性要求]

Electrical Requirements 電氣特性要求		
Item	Requirement	Test Methods
Insulation Resistance. 絕緣阻抗	5 M Ω min. 5 M Ω 以上.	Over 5M ohm at 500 V DC, 1 min. 測試電壓 500 V DC、測試時間一分鐘。 IEC 60320-1, Section 15.
Electrical Strength. 耐電壓強度	No Breakdown. 無任何損壞。	A) 1,500 V AC being applied between all terminals for one minute. 在所有端子與端子之間施加 1,500 V AC 測試一分鐘。 B) 3,000 V AC being applied between all terminals and frame one minute. 在所有端子與塑膠本體之間施加 3,000 V AC 測試一分鐘。 IEC 60320-1, Section 15.
Contact Resistance. 接觸阻抗	50 m Ω max. 50 m Ω 以內.	Mate connectors, apply maximum voltage of 5 V and a current of 50 mA. 將連接器匹配後，以測試電壓最大 5V，電流最大 50 mA。 IEC 60127-6

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5. Test Requirement and Procedures. 測試條件與程序. [Mechanical Requirements 機械特性要求]

Mechanical Requirements 機械特性要求		
Item	Requirement	Test Methods
Ball-Pressure Test. 球壓測試	Measure the diameter of the impression shall not exceed 2 mm. 壓痕直徑最大 2 mm *	The specimen shall be stored at a temperature of $125 \pm 2^{\circ}\text{C}$, a steel ball of 5 mm diameter is pressed against the surface of the specimen with a force of 20N for 1 hour. 產品放在 $125 \pm 2^{\circ}\text{C}$ 的加熱室內, 用一直徑 5 mm 的鐵球, 作用力 20N, 對產品表面施壓一小時。 IEC 60320-1, Section 24.
Push-out Test. 面板推出 測試 (For Panel Only)	No specimen push-out of the plate. 樣品不會被推出 面板。	The specimen mount in a plate and shall be stored at a temperature of 70°C for 7 hour, then a static load of 45 lbf be applied to the back of the specimen for one minute. 樣品固定在面板上, 置於 70°C 加熱室內/ 七小時, 然後施加 45 磅壓力於樣品背部(持續一分鐘)。

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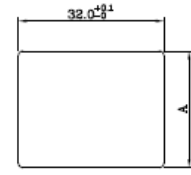
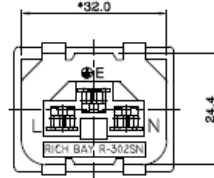
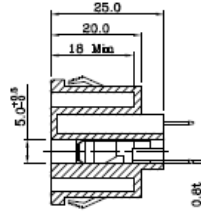
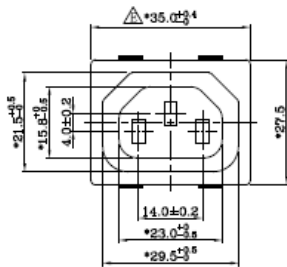
6. Test Requirement and Procedures. 測試條件與程序.[Environment Requirements 環境要求]

Environment Requirements 環境要求		
Item	Requirement	Test Methods
Moisture Resistance. 防潮	No damage. 無任何損傷。	Expose the specimens to 20~30°C, 91~95% R.H. for 168 hour. 樣品放在溫度 20~30°C、相對濕度 91~95% 之測試槽內 168 小時。 IEC 60320-1, Section 14.
Resistance to Heat. 耐熱性	No damage. 無任何損傷。	The specimen shall be stored at a temperature of 100 ± 2°C for 1 hour. 樣品放在 100 ± 2°C 的測試槽內一小時。 IEC 60320-1, Section 24.
Solderability 焊錫性	Solder coverage more than 90%. 端子需被覆錫 90% 以上。	A) Wave Soldering : 波焊 : Soldering temperature 250 ± 5°C, duration 3~5 sec. 錫溫 250 ± 5°C, 沾錫 3~5 秒。 B) Manual Soldering: 烙鐵焊接 : Soldering temperature 380 ± 5°C, duration 2~3 sec. 錫溫 380 ± 5°C, 沾錫 2~3 秒。 IEC 60068-2
Resistance to Solder Heat 抗焊錫熱	No damage. 無任何損傷。	Soldering temperature 260 ± 5°C, duration 5 ± 1 sec. 錫溫 260 ± 5°C, 沾錫 5 ± 1 秒。 IEC 60068-2

7. Certified Safety. 認證安規.

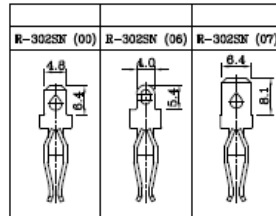
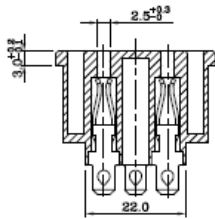
VDE / ENEC / UL / CUL / CCC .

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PANEL CUT-OUT

THICKNESS	A
0.8t ~ 1.0t	25.0
1.0t ~ 1.2t	25.2
1.2t ~ 1.5t	25.5
2t	25.7
3t	25.7



SPCIFICATION:

1. Insulation Resistance: Over 100MΩ at 500V DC.
2. Dielectric strength: 2000V AC 1 Minute.
3. Body Material: Thermoplastic 94V-2-V-0.

Rating AC 15A 250V	
Mark	Safety Regulation
	ULIS
Rating AC 10A 250V	
Mark	Safety Regulation
	VDE
	BNEC
	CCC

DRAWN BY	UNIT	UNIT QTY	SCALE	TOLERANCE	PRODUCT NO.
105.01.25	APPROVED BY		105.01.26	ID NO	160125A01
				INTERIM NO.	