

# 凱譽科技股份有限公司

KAI YUI TECHNOLOGIC CORP.

## SPECIFICATIONS 規格書

A) SCOPE 適用範圍 (使用系列產品料號：)

This specification covers " 3.5Ø PHONE JACK " 3.5 Ø 插座

B) CHARACTERISTICS 性能

Standard atmospheric specified, measurements shall be made at temperature , humidity and air pressure within the following limit :

Ambient temperature	:	5 °C	to	35 °C
Relative humidity	:	45 %	to	85 %
Air pressure	:	85 Kpa	to	106 Kpa

標準狀態：沒有特別指定時，測試是在常溫、常濕、常壓下進行：

環境溫度	:	5 °C	to	35 °C
相對濕度	:	45 %	to	85 %
大氣壓力	:	85 Kpa	to	106 Kpa
Operating temperature range	:	-20 °C	to	60 °C
操作溫度範圍				
Storage temperature range	:	-25 °C	to	70 °C
保存溫度範圍				

C) ELECTRICAL CHARACTERISTICS 電氣性能 .

ITEM 項目	TEST CONDITIONS 測試條件	SPECIFICATION 規格
(C1)Rated Voltage 核定電壓 Rated Current 核定電流		DC 16V 20mA~0.3A
(C2)Insulation Resistance 絕緣阻抗	A voltage of 500V DC shall be applied to the terminals. After which measurement shall be made. DC 500V 在端子之間用 DC 500V 測試	100M Ω or more ≥ 100M Ω

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ITEM 項目	TEST CONDITIONS 測試條件	SPECIFICATION 規格
(C3)Contact Resistance 接觸阻抗	<p>Measurement shall be made at 1 K Hz with 100 mA or less (With the test plug as show in item G)</p> <p>&lt;1&gt;Initial before any testing a、Pin to contact or (T-TS, R-RS) (N.C.). b、Plug shield to socket or (T,R,S,) (N.O.).</p> <p>&lt;2&gt;After life test with mating plug a、Pin to contact or (T-TS, R-RS) (N.C.). b、Plug shield to socket or (T,R,S,) (N.O.).</p> <p>在 1 K Hz, 100 mA 以下電流做測定(測試用插棒參考第 G 項)</p> <p>&lt;1&gt;初始，在做任何測試前 a、端子與分路, (T-TS, R-RS) (常閉) b、插棒各極與插座(T,R,S,)間(常開)</p> <p>&lt;2&gt;在以對應插棒做壽命試驗後 a、端子與分路, (T-TS, R-RS) (常閉) b、插棒各極與插座(T,R,S,)間, (常開)</p>	<p>Initial :</p> <p>a、30mΩ or Less ≤ 30mΩ</p> <p>b、50mΩ or Less ≤ 50mΩ</p> <p>After life :</p> <p>a、60mΩ or Less ≤ 60mΩ</p> <p>b、100mΩ or Less ≤ 100mΩ</p>
(C4)Dielectric Strength 耐電壓	<p>Withstand 0.5 mA (Trip current) 500V AC(50 or 60 Hz) between any open terminal for 1 minute.</p> <p>可承受 0.5 mA (感度電流), AC 500V (50or 60 Hz) . 1 分鐘，在任何 open 端子之間.</p> <p>(Open terminal: Between each terminal which should not make contact , before plug insert to socket R-T,R-S, after plug insert</p>	<p>Without distinct Damage</p> <p>無異常</p>

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	to socket R-RS, T-TS, ... .) (Open 端子: 指相互未接觸的端子, 如未插入 plug 時之 R-T, R-S, 插入 plug 後之 R-RS, T-TS, ... .)	
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## D ) . MECHANICAL CHARACTERISTICS 機械性能

ITEM 項目	TEST CONDITIONS 測試條件	SPECIFICATION 規格
(D1) Insertion force and Withdrawal force 插入力 / 拔出力	Initial 初始 ( With the test plug as show in item G ) ( 測試用插棒規格參考第 G 項 )	Insertion force 插入力 0.3kgf ~ 3kgf
		Withdrawal force 拔出力 0.3kgf ~ 3kgf
	After life test 壽命試驗後 ( With the test plug as show in item G ) ( 測試用插棒規格參考第 G 項 )	Insertion force 插入力 0.2kgf ~ 2kgf
		Withdrawal force 拔出力 0.2kgf ~ 2kgf
(D2) Terminal strength 端子強度	Terminals must withstand a 500g minimum pull for 10 seconds before movement or break from housing occurs , but deformation of terminal is authorized . 各端子部須測試荷重 500g , 10 秒 , 端子不可有脫落或塑膠本體不可有破裂等情況 , 但端子部彎曲 , 變形可接受 .	

## E ) . ENDURANCE CHARACTERISTICS 耐久性能

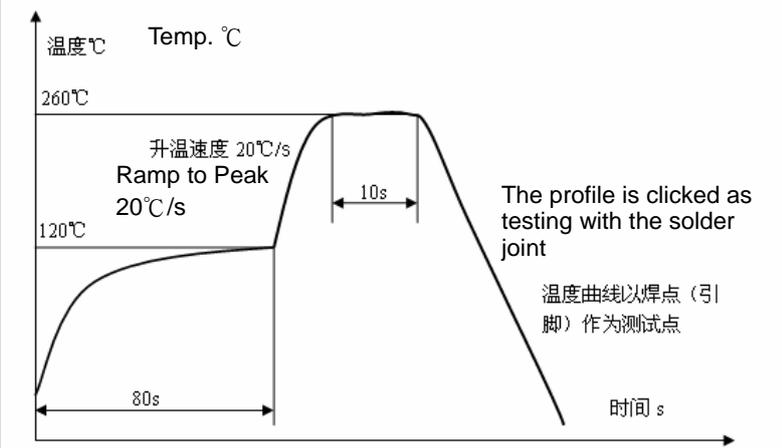
ITEM 項目	TEST CONDITIONS 測試條件
(E1) Life test 壽命試驗	The life test shall consist of 5,000 cycles of insertion and withdrawal with test plug( Show in item G ), at a rate of 20 to 30 cycles per minute under no load . 壽命試驗在無負荷狀態下 20 ~ 30 回 / 1 分鐘的插入及拔出, 做 5,000 回, 測試用插棒( 參考第 G 項 ) .

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(E2) Soldering test 焊錫試驗	The terminal of JACK tested shall be dipped into soldering flux or equivalent for 5 ~ 10 seconds and then immersed into molten solder Sn at $260 \pm 5^\circ\text{C}$ for $3 \pm 0.5$ seconds, the coverage should more than 95%. 插座端子部，浸助焊劑 5 ~ 10 秒，再浸 Sn 溶液—溫度 $260 \pm 5^\circ\text{C}$ 。時間 $3 \pm 0.5$ 秒，端子部上錫覆蓋面積須達 95% 以上。
(E3) Soldering heat 上錫耐熱性	The terminal for a printed circuit board . Temperature of solder : $260 \pm 5^\circ\text{C}$ Dip time : $5 \pm 1$ seconds . 端子部與銅箔面上錫溫度與時間 . 溫度: $260 \pm 5^\circ\text{C}$ 時間: $5 \pm 1$ 秒 .
(E4) Hand Soldering Temperature 手焊溫度	Temperature of solder : $350 \pm 10^\circ\text{C}$ Dip time : $3 \pm 0.5$ seconds . 溫度: $350 \pm 10^\circ\text{C}$ 時間: $3 \pm 0.5$ 秒 .

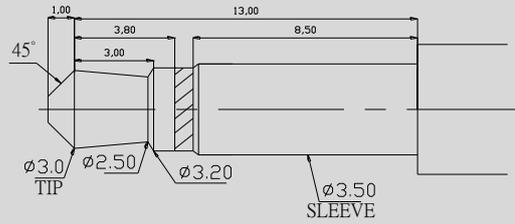
## F ) . DIP 溫度曲線圖

ITEM 項目	TEST CONDITIONS 測試條件
The temperature peak without lead. 無鉛波峰焊制程溫度	 <p>Pre-heating temperature is <math>25 \sim 120^\circ\text{C}</math>, for a duration about 80 seconds.                      預熱溫度 <math>25 \sim 120^\circ\text{C}</math>，時間 80sec                      The peak temperature is <math>260^\circ\text{C}</math>, the duration for 10 seconds.                      錫爐峰值溫度為 <math>260^\circ\text{C}</math>，持續時間為 10sec.</p>

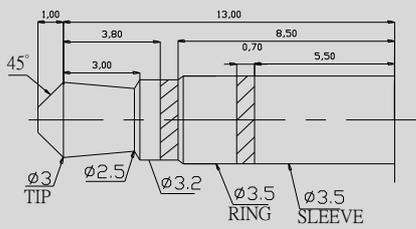
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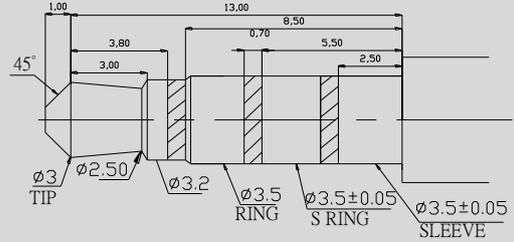
G ) . MATED PLUG 適用插棒



MONO PLUG



STEREO PLUG



4P PLUG

制定日期	A	C	M
2008. 10. 13	P	H	A
	V	K	K
	D	D	E
	Jacky	Dragon	Roy