04.07.03.389

防静电二合一拆焊台

Professional Rework Station
2-in 1 & ESD Safe

操 作 指 引
OPERATION INSTRUCTION

中文/English

中国制造　Made in China

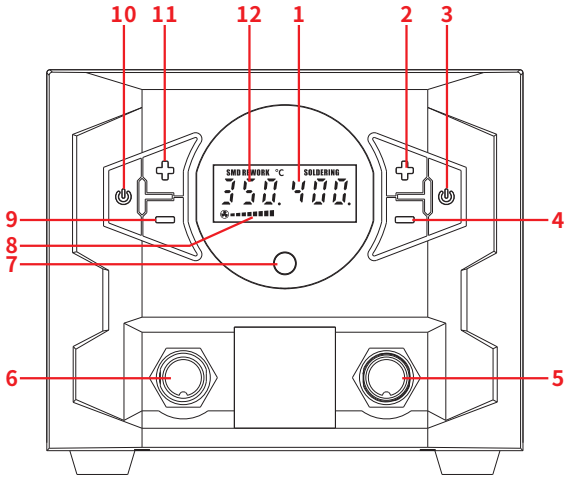
感谢您购买此产品，使用前请仔细阅读本手册，阅读后请妥善保管，以便日后查阅。
Thank you for purchasing this product. Please read the manual carefully before operating and keep this manual for future reference.

一 、 用 途

1、适合多种元件的拆焊及焊接，如：SOIC、CHIP、QFP、PLCC、BGA、SMD等，特别适合排线座的拆焊。

2、用于热收缩、烘干、除漆、除粘、解冻、预热、胶焊接等。

二 、 面 板 示 意 图



1、焊台温度显示
2、焊台温度增加按键
3、焊台开关
4、焊台温度减少按键
5、烙铁手柄接口
6、风枪手柄接口
7、调风旋钮/功能按键
8、风量模拟显示
9、风枪温度减少按键
10、风枪开关
11、风枪温度增加按键
12、风枪温度显示

注意：点按功能按键切换华氏度/摄氏度模式，或者切换冷风/热风模式，二种模式只能选择一种。

三 、 操 作 说 明

风枪部分

1、将拆焊台摆放好，把手柄架装在机箱左侧，把风枪手柄搁置在手柄架上。
2、装置所需的风嘴（尽量使用大口径风嘴），连接好电源。
3、打开电源开关，再打开风枪开关，风枪温度显示窗显示“---”，风枪为待机状态，按风枪温度增加减小按键设置所需的温度，拿起手柄，风枪进入正常状态，这时风枪工作指示灯（风枪显示窗右下角圆点）亮起！升温时为常亮，恒温时有规律高速闪动，降温时熄灭。调节调风旋钮设置合适风量，待温度稳定后便能作业。恒温后可以直观看风枪工作指示灯高速闪动，这时高精度PID程序以毫秒为单位高速跟踪补偿风枪实际温度，风枪进入温度高稳定高精度的恒温状态！

4、作业完毕，必须把手柄放置在手柄架上，关闭风枪开关，风枪工作指示灯熄灭，进入送冷风冷却发热体模式，当温度降低于100°C/212°F时，风枪温度显示屏熄灭，如长时间不使用，须关掉机器的电源开关并拔掉机器的电源插头。

焊台部分

1、连接好烙铁手柄，将手柄放在烙铁座中。
2、打开电源开关，再打开焊台开关，焊台发热丝开始正常加热，这时焊台工作指示灯（焊台显示窗右下角圆点）亮起！升温时为常亮，恒温时有规律高速闪动，降温时熄灭。当焊台工作指示灯有规律高速闪动进入恒温状态后，即可工作！

注意：当烙铁头初次使用时，请把温度设置为250°C/482°F，待其温度刚刚能融化锡丝时，给烙铁头镀上一层新焊锡（含助焊剂），然后再将温度升至所需的温度。

3、作业完毕，使用湿润清洁海绵或金属丝清理烙铁嘴上的残留物，重新镀上一层新的焊锡，将烙铁手柄放入烙铁架中,然后关闭焊台开关。如长时间不使用，须关掉机器的电源开关并拔掉机器的电源插头。

数字温度校正设置

由于环境变化或更换发热芯烙铁头等配件引起的温度偏差，可通过此功能校正；温度校正可有效提高作业效率及延长烙铁使用寿命。

1、风枪（焊台）恒温后，同时按下风枪（焊台）温度增加减小按键约2秒，显示屏 “CAL”和设置温度交替显示。
2、按风枪（焊台）温度增加减小按键输入测量温度。
3、同时按下风枪（焊台）温度增加减小按键，系统自动校正温度并退出校正状态。

● 华氏度/摄氏度显示转换设置

此功能可让机器适应不同地区消费者的使用习惯。
点按功能按键切换华氏度或摄氏度显示模式。或者长按功能按键约2秒，按二次功能按键，显示屏显示“°C”或“°F”，调节功能按键设置华氏度或摄氏度显示模式，停止操作约6秒，系统保存数据并退出设置。

● 冷风/热风功能设置

启动风枪后，按下功能键，风枪温度开始降温，当风枪温度低于70°C（158 °F），机器将进入冷却模式。按下功能键，机器进入正常的热风模式。

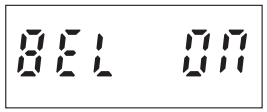
● 烙铁休眠时间设置

此功能可以延长烙铁的使用寿命，节能环保。
1、打开焊台开关，长按功能按键约2秒，显示屏显示“SLP 010”，表示休眠时间为10分钟。
2、调节功能按键设置休眠时间，休眠时间可设置为0或10分钟，设置0时不休眠。
3、停止操作约6秒，系统保存数据并退出设置。

唤醒休眠：
A、拿起烙铁轻甩几下唤醒烙铁。
B、按下焊台任意按键。
C、关闭电源开关，再打开开关。

● 提示音开关设置

1、打开焊台开关，长按功能按键约2秒，按一次功能按键，显示屏显示“BEL ON”或“BEL OFF”。
2、调节功能按键打开或关闭提示音，停止操作约6秒，系统保存数据并退出设置。



● 无风保护功能

如风枪在使用过程中非正常停风，系统自动切断发热丝电源，防止风枪无风而热量聚积烧坏手柄，进一步加强了产品的安全性能。

四、保养及注意事项

● 风枪部分

1、请保持出风口畅通，不能有阻塞物。
2、装置喷嘴时必须在钢管与喷嘴都冷却时才可操作，并且装到位，勿使劲装置喷嘴，或用钳子拉动喷嘴边缘，勿使劲拧紧螺丝。
3、根据工作需求，选用合适的风咀（不同的风咀，温度可能略有差别），在使用机器标配的喷嘴以外更小喷嘴时，必须要将风量调为最大，使用较低的温度并在短时间内使用，避免长时间使用损坏风枪。
4、出风口与元件之间距离最少是2mm。
5、切勿以热气直喷脸部，有灼伤人体的危险。启动初时，可能会冒出白烟，之后白烟消失。

特此说明：
尊敬的用户您好！因机器风枪和烙铁手柄采用的是高强度不锈钢钢筒，在生产过程中机器必须在正常工作状态通过四次检验或校准，钢筒因高温会出现轻微变黄！当新机拆开使用时发现钢筒处有轻微的变黄，此为正常现象，请放心使用！

● 焊台部分

1、如烙铁头表面出现一层氧化物，造成烙铁头低温的假象，无法熔锡和上锡，此时发热芯与烙铁头都处于高温状态。出现这种情况时，不要盲目把温度再调高。应用清洁金属丝清除氧化物，步骤：

A、温度设置300°C（572°F）。
B、恒温后把烙铁头放入清洁金属丝内轻微摩擦。
C、当烙铁头有部分氧化层去除后，在烙铁头上加锡后继续摩擦，重复此操作，直到烙铁头完全上锡。如烙铁头严重氧化，更换新的烙铁头。

2、切勿用锉刀剔除烙铁头的氧化物，如果烙铁头变形或衍生铁锈，必须更换新的烙铁头。
3、焊接时不要给烙铁头太大的压力，这样不会加速热量传递，反而会使烙铁头受损。
4、烙铁高温工作后，放回烙铁架待用时，应把温度旋钮调至250°C（482°F）以下待用，否则烙铁头长期处于高温备用状态下，使发热芯加速老化，缩短发热芯、烙铁头的寿命。
5、作业结束后，应抹净烙铁头，镀上新锡层，以防止烙铁头氧化。

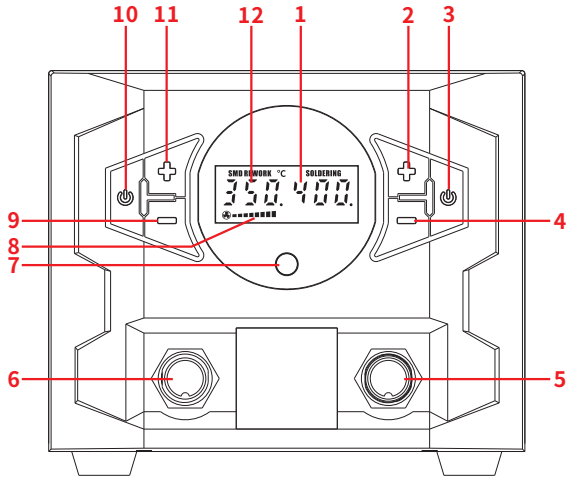
五 、 故 障 排 除

1、显示 “S-E”， 表示焊台/风枪的传感器组件出现故障，需要更换发热体（发热材料及传感器组件），或是未插上手柄（请关机插上手柄再重新开机）。
2、显示 “F-1/F-2”，表示当前为风枪无风保护状态，需要检查风枪和风枪供电电路。
3、更换发热芯时应注意连接线的顺序及颜色，不能接错！！
4、显示 “SLP”，表示处于休眠状态。

I. APPLICATIONS

1. *This unit is great for desoldering and soldering applications on small components ,such as SOIC, CHIP, QFP, PLCC, BGA, SMD packaging, and more. This unit is especially suited for desoldering operations on sockets in in-line packaging.*
2. *The unit's applications include heat shrinking, drying, paint removal, glue removal, defrosting, pre-heating, glue soldering, and more.*

II. CONTROL PANEL



1. *Temperature Display (Soldering Station)*
2. *Temperature Increase Button (Soldering Station)*
3. *Power Switch (Soldering Station)*
4. *Temperature Decrease Button (Soldering Station)*
5. *Receptacle (Soldering Iron)*
6. *Receptacle (Hot Air Rework Station)*
7. *Air Volume Adjustment Knob / Function Button*
8. *Air Volume Display (Simulated Value)*
9. *Temperature Decrease Button (Hot Air Rework Station)*
10. *Power Switch (Hot Air)*
11. *Temperature Increase Button (Hot Air Rework Station)*
12. *Temperature Display (Hot Air Rework Station)*

NOTE: The model variant comes in either Function Button - °C/°F conversion, or Function Button – Hot/Cool Air Modes, and each variant only comes with either functions.

III. OPERATION

Hot Air Rework Station

1. Set the rework station correctly. Install the hot air gun holder to the left side of the station, and place the hot air gun onto the holder.
2. Install the required nozzle (Use of large-diameter nozzles is recommended), and connect the station's power cord to an electrical outlet.
3. Turn ON the power switch, and the temperature display shows "--- " to indicate the hot air gun in standby mode. Set the desired temperature by using the increase and decrease buttons, and then pick up the hot air gun. The hot air gun will enter its standard operation status, and the hot air gun's operation indicator light (the dot located at the bottom-right corner of the temperature display) turns ON. The indicator stays ON when the hot air gun is heating up, blinks rapidly when the temperature is stabilized and turns OFF when the hot air gun is cooling. Adjust the air volume adjustment knob to set the appropriate air volume, and begin operation once the temperature has stabilized. The operation indicator blinks rapidly when the temperature enters stabilization. At this point, the precision PID program tracks and compensates the hot air gun's actual temperature every millisecond. The hot air gun is now in the high-precision thermostatic state.

Indicator for real-time temperature tracking & compensation

4. When the operation is complete, place the hot air gun back to the holder. Turn OFF the power switch (hot air), and the operation indicator light of the hot air gun turns OFF. The hot air gun now enters cool air mode to cool the heating element. When the temperature drops below 100°C/212°F, the hot air rework station's temperature display turns OFF. If the station is not in use for an extended period, turn OFF the station's power switch and DISCONNECT the station's power plug.

Soldering Station

1. Connect the soldering iron handle to the station, and place the soldering iron into the iron holder.
2. Turn ON the power switch, then turn ON the soldering station's power switch. The soldering station's heating element will begin heating normally, and the station's operation indicator light (the dot located at the bottom-right corner of the soldering station's display) turns ON. The indicator light stays ON when the soldering iron is heating, blinks rapidly when the temperature is stabilized, turns OFF when the soldering iron is cooling. Begin with the operation when the soldering station's operation indicator light blinks rapidly to indicate temperature stabilization.

Indicator for real-time temperature tracking & compensation

CAUTION: Upon the first use of the soldering iron, set the temperature to 250°C/482°F. When the iron is just hot enough to melt solder, coat the soldering iron tip with a layer of solder (the use of rosin-core solder is recommended), then set the temperature to your desired value.

3. When the operation is complete, use a damp sponge or brass wool ball to clean the soldering iron tip. Tin the soldering iron tip with a new layer of solder again, then put the soldering iron back to the holder, and turn OFF the soldering station's power switch. If the station is not in use for an extended period, DISCONNECT the power cord.

Digital Temperature Calibration

Temperature discrepancies may occur due to the change in the environment's temperature or due to the replacement of the heating element and other components. You can correct the discrepancies with this function. The temperature calibration function can help improve work efficiency and prolong the lifespan of the soldering iron.

1. Once the hot air rework station (soldering station) reaches temperature stabilization, press and hold both the hot air rework station(soldering station)'s temperature increase and decrease buttons for approximately 2 seconds. The display shows "CAL" while alternating the display value with the set temperature.
2. Press the hot air (soldering station) temperature increase or decrease button to enter the measured temperature value.
3. Once done entering, press the hot air rework station (soldering station)'s temperature increase and decrease buttons at the same time to confirm entry. The system automatically calibrates the temperature and exits the calibration interface.

°C/°F Display Setting

This function allows the station to comply with user preferences in different regions.

Press the function button to select either the Fahrenheit or Celsius display mode or, press and hold the function button for approximately 2 seconds, then, press the function button 2 times. The display shows "C" or "F", and turn the air volume adjustment knob to select either the Fahrenheit or Celsius display mode. Once done selecting, stop operating for approximately 6 seconds, the system automatically saves the data and exits the setting interface.

Hot / Cool Air Modes

Once the hot air gun is started-up, press the function button, and the hot air gun's temperature begins cooling down. When the hot air temperature is cooled to below 70°C(158°F), the station will enter cool air mode. Press the function button again, the station will return to the normal hot air mode.

Sleep Mode Count Down Timer Duration

This function extends the lifespan of the soldering iron, conserves energy, and protects the environment.

1. Turn ON the soldering station's power switch, then, press and hold the function button for approximately 2 seconds. The display shows value "SLP 010" to indicate that the countdown timer is set to 10 minutes.

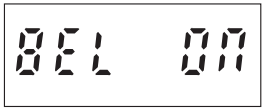
2. Turn the function button to set the required countdown timer duration. The duration can be set to either 0 or 10 minutes. Set the duration value to 0 to turn OFF sleep mode.
3. Once done setting, stop operating for approximately 6 seconds, the system saves the data and exits the setting interface.

To start up the station from sleep mode:

A. Shake the soldering iron a few times.
B. Press any button on the soldering station.
C. Turn OFF, then turn ON the station.

Buzzer Prompts

1. Turn ON the soldering station's power switch, then, press and hold the function button for approximately 2 seconds. Release the function button, then, press the function button 1 time, and the display shows "BEL ON" or "BEL OFF".



2. Turn the air volume adjustment knob to turn ON or turn OFF the buzzer prompter. Once done setting, stop operating for approximately 6 seconds, the system saves the data and exits the setting interface.

Hot Air Gun Fail-safe Protection (Hot Air Rework Station)

When the hot air gun stops putting out air abnormally during an operation, the system will automatically cut off the power to the heating element. This is to prevent the burn damages on the handle due to heat accumulation from not putting air out. This function further improves the safety factor of the product.

IV. MAINTENANCE & PRECAUTIONS

Hot Air Rework Station

1. Keep the air outlet clear and free of blockages at all times.
2. The installation of the hot air nozzles MUST be carried out ONLY when the steel pipe and nozzle have cooled. Install the nozzle correctly, DO NOT install the nozzle with brute force, pull the edge of the nozzle with tweezers, or over-tighten the screws.
3. Select the appropriate nozzle based on your operation requirement (temperatures may vary when you use nozzles in different diameters). When using nozzles smaller than the stock nozzles, you MUST use the maximum air volume with a relatively lower temperature setting. Complete this operation in the shortest duration possible to prevent damaging the hot air gun.
4. Keep a minimum distance of 2mm between the subject and the hot air gun's air outlet.
5. DO NOT allow the hot air to come in direct contact with facial parts, and beware of the danger of burn injuries. Upon the first use, the hot air gun may emit white fumes, and the white fume will dissipate in a short while.

NOTE:
The station's hot air gun and soldering iron handles use high-strength stainless steel tubes. The station goes through 4 times or more testing, inspection, and calibration procedures before rolling off the assembly line. The steel tube may exhibit light bronze color as a result of our quality control efforts. It is normal to have a slightly bronzed steel tube when you using a brand-new station; Rest assured for regular usage.

Soldering Station

1. If a layer of oxidization forms on the surface of the soldering iron tip, a misconception can be created that the tip cannot heat up properly to melt the solder and do the tinning. However, the actual temperatures of both the heating element and tip are high. In such an instance, please do not increase the temperature value confusedly but use a metal wool ball to remove the oxidization following the steps below:

A. Set the temperature to 300°C (572°F).
B. Once the temperature stabilizes, gently rub the soldering iron tip inside the metal wool ball.
C. When the oxidization is partially removed, continue applying solder onto the soldering iron tip while rubbing it until the tip is completely coated with solder. If the tip is too severely oxidized beyond cleaning, replace it with a new one.

2. DO NOT use metal files to remove the oxidization on the soldering iron tip. If the soldering iron tip deforms or rusts, replace the soldering iron tip with a new tip.

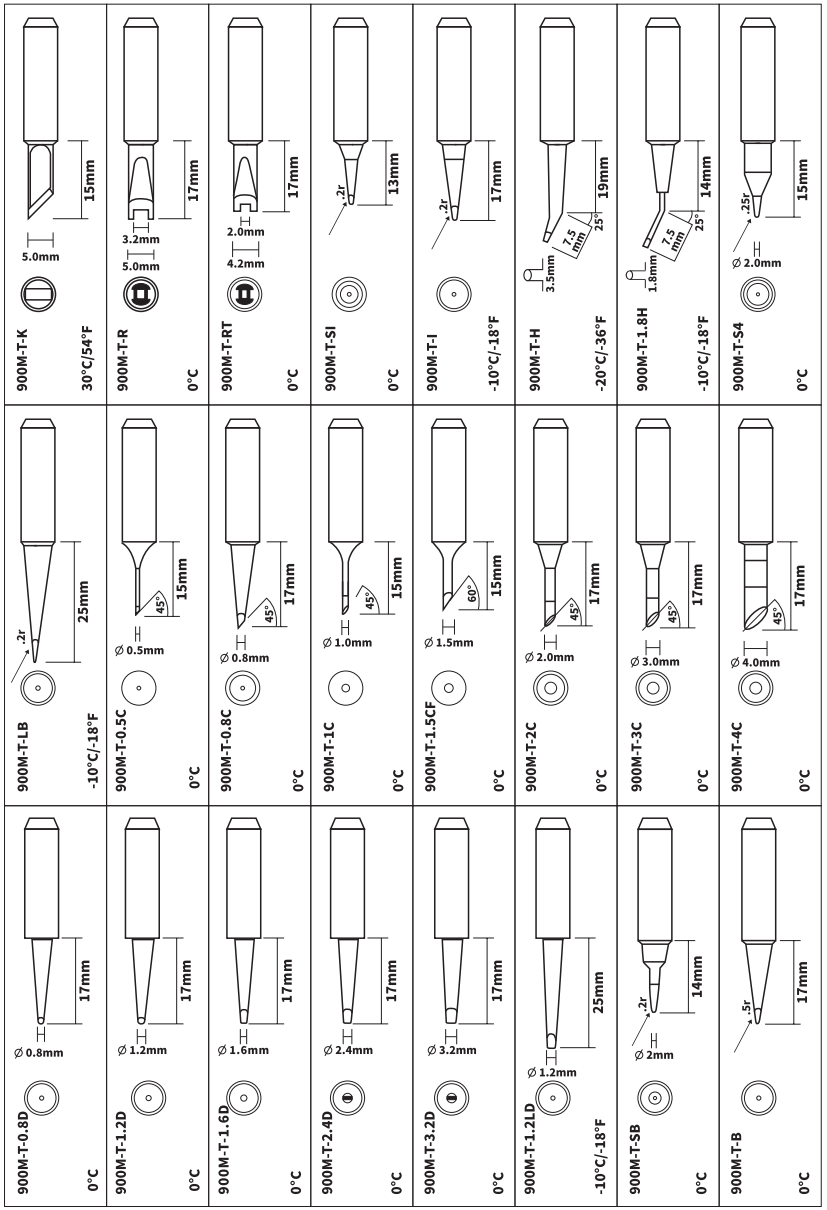
3. DO NOT apply excessive force on the soldering iron tip when soldering. This will not only not improve the heat transfer but damage the soldering iron tip instead.
4. When placing the soldering iron back in the holder to idle after a high-temperature operation, adjust the temperature to 250°C (482°F) or below for idling. Failure to do so, and leaving the soldering iron tip to idle on a high-temperature setting will cause the accelerated aging of the heating element and shorten the lifespan of the heating element and soldering iron tip.
5. After every operation, clean the soldering iron tip, then tin the tip with a new layer of solder to prevent oxidization.

V. TROUBLESHOOTING

1. S-E – This is an indication that the station's sensor module is faulty. You need to replace the heating element (the heating element and the sensor modules). Or it may be that the soldering iron has not been connected (Turn OFF the power, connect the soldering iron, then turn ON the station again.)
2. F-1/F-2 – This is an indication that the hot air gun is in the zero-air protection mode. The hot air gun and the hot air gun's power circuitry require inspection in this instance.
3. When replacing the heating element, take note of the original connecting order and colors of the wires which MUST NOT be connected incorrectly.
4. SLP - This is an indication of sleep mode being active.

焰铁头型号（规格和尺寸）Tip style（specifications and sizes）

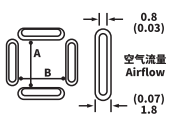
900M系列外径φ6.5mm 900M Series Tip Out Diam φ 6.5mm

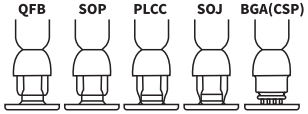


适配部件参考 For reference: compatible parts

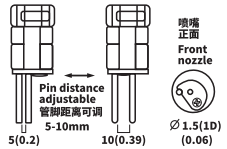
风嘴型号（规格和尺寸） Nozzle style （specifications and sizes）

风嘴的尺寸表示对应IC的尺寸 The nozzles sizes match with their corresponding IC sizes.

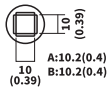




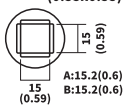
A1325
Single-tube
单管式
φ1.5x5.10
(0.06x0.02-0.39)
Pin distance adjustable
管脚距离可调



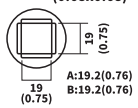
A1125 QFP 10x10 (0.39x0.39)



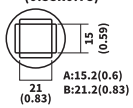
A1126 QFP 14x14 (0.55x0.55)



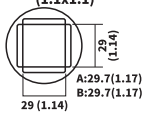
A1127 QFP 17.5x17.5 (0.68x0.68)



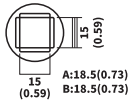
A1128 QFP 14x20 (0.55x0.78)



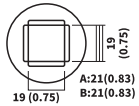
A1129 QFP 28x28 (1.1x1.1)



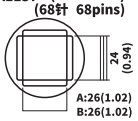
A1135 PLCC 17.5x17.5 (0.68x0.68) (44针 44pins)



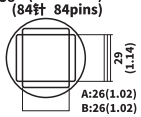
A1136 PLCC 20x20 (0.78x0.78) (52针 52pins)



A1137 PLCC 25x25 (0.98x0.98) (68针 68pins)

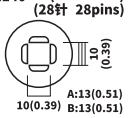


A1138 PLCC 30x30 (1.18x1.18) (84针 84pins)

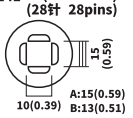


A1139 PLCC 12.5x7.3 (0.49x0.49) (18针 18pins)

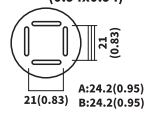
A1140 PLCC 11.5x11.5 (0.45x0.45) (28针 28pins)



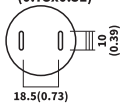
A1141 PLCC 11.5x14 (0.45x0.55) (28针 28pins)



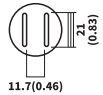
A1182 BOFP 24x24 (0.94x0.94)



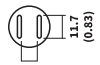
A1187 TSOL 18.5x8 (0.73x0.31)



A1257 SOP 11x21 (0.43x0.83)

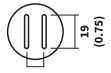


A1258

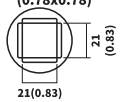


A1259 SOP 13x28 (0.51x1.1)

A1260 SOP 8.6x18 (0.34x0.71)

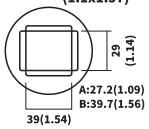


A1261 QFP 20x20 (0.78x0.78)

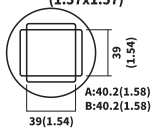


A1262 QFP 12x12 (0.47x0.47)

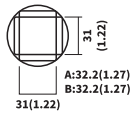
A1263 QFP 28x40 (1.1x1.57)



A1264 QFP 40x40 (1.57x1.57)



A1265 QFP 32x32 (1.26x1.26)



A1124 Single-tube 单管式 φ2.5 (1.1x1.57)

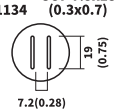
A1130 Single-tube 单管式 φ4.4 (0.17)

A1131 SOP 4.4x10 (0.17x0.39)

A1132 SOP 5.6x13 (0.22x0.51)

A1133 SOP 7.5x15 (0.3x0.59)

A1134 SOP 7.5x18 (0.3x0.7)



Curved single tube
A1142 弯型单管式 1.5x3 (0.06x0.12)