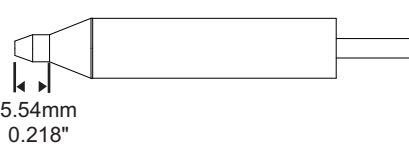


| DxP DESOLDERING TIPS                                                                                                                                                                               |                      | Compatible with: MFR-DSX, MFR-DSI, MFR-SDX, MFR-SDI Systems and MFR-HDS hand-piece<br>All dimensions shown are in mm (inches) |                |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|
| <br><br><br><br><b>Standard</b> |                      | <b>A</b>                                                                                                                      | <b>B</b>       | <b>TYPE</b> |
|                                                                                                                                                                                                    | DFP-CN2<br>DCP-CN2   | 0.67<br>(.026)                                                                                                                | 1.80<br>(.070) | Standard    |
|                                                                                                                                                                                                    | DFP-CN3<br>DCP-CN3   | 0.79<br>(.031)                                                                                                                | 2.05<br>(.080) | Standard    |
|                                                                                                                                                                                                    | DFP-CN4<br>DCP-CN4   | 1.05<br>(.041)                                                                                                                | 2.30<br>(.090) | Standard    |
|                                                                                                                                                                                                    | DFP-CN5<br>DCP-CN5   | 1.31<br>(.052)                                                                                                                | 2.65<br>(.104) | Standard    |
|                                                                                                                                                                                                    | DFP-CN6<br>DCP-CN6   | 1.55<br>(.061)                                                                                                                | 2.85<br>(.112) | Standard    |
|                                                                                                                                                                                                    | DFP-CN7<br>DCP-CN7   | 2.44<br>(.096)                                                                                                                | 3.65<br>(.143) | Standard    |
|                                                                                                                                                                                                    | DFP-CNL3<br>DCP-CNL3 | 0.79<br>(.031)                                                                                                                | 2.05<br>(.080) | Long Reach  |
|                                                                                                                                                                                                    | DFP-CNL4<br>DCP-CNL4 | 1.05<br>(.041)                                                                                                                | 2.30<br>(.090) | Long Reach  |
|                                                                                                                                                                                                    | DFP-CNL5<br>DCP-CNL5 | 1.31<br>(.052)                                                                                                                | 2.65<br>(.104) | Long Reach  |

F = FR4 / Fiber Glass, for most standard applications C = Ceramic for high thermal demand applications

## What is SmartHeat® Technology?

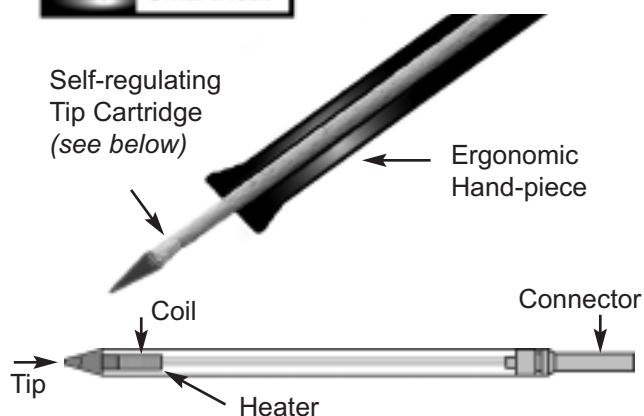
SmartHeat® Technology is unique in that it senses the specific thermal demand directly at the solder pad and delivers the precise quantity and flow of thermal energy during both flux activation and inter-metallic bonding phases without any adjustment and calibration. SmartHeat® is radically different and provides users the only fully safe and thermally effective soldering lead free solution.

Conventional technology senses and responds to the tip temperature and not the thermal energy demand of the solder joint and users are required to calibrate their systems regularly. In today's lead free environment, the conventional technology is thermally inefficient to produce good quality solder joints consistently and leaves process control in the hands of the individual operators.

Good quality joints are a result of precise quantity and flow of thermal energy and not tip temperature. Fixed temperature cartridges and tips offer users a fully safe and thermally effective solution to their lead free soldering needs as well as complete process control. Furthermore, fixed temperature cartridges and tips can offer better tip life because they can operate at a lower temperature than conventional technology. Please speak to our representatives on proper tip selection for your soldering applications.

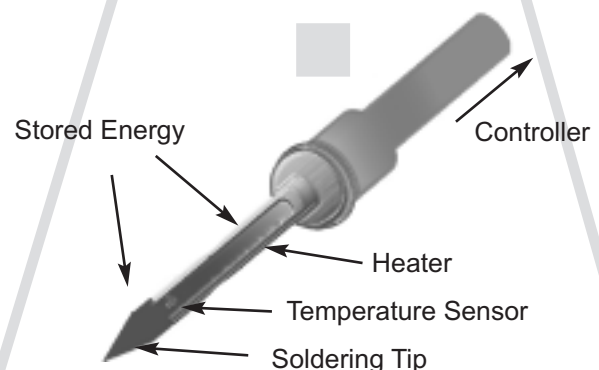
### SmartHeat® Soldering Technology = Variable Power / Fixed Temperature

- ▶ SmartHeat® tips and cartridges sense the load and instantly deliver the right amount of heat directly to the solder joint.
- ▶ The required solder joint temperature drives the heating process, as opposed to the idle tip temperature setting (as in a conventional iron).
- ▶ Operates at lower safer temperatures. Power is delivered in proportion to the load. SmartHeat® technology eliminates overshoot.
- ▶ No calibration required - saves money and eliminates system down-time.



### Conventional Soldering Technology = Fixed Power / Variable Temperature

- ▶ Conventional soldering irons are fixed power systems that store energy in the tip, they don't adjust power in response to thermal demand.
- ▶ The temperature needs to be manually set and adjusted to vary the amount of thermal energy applied, the operator can vary the process.
- ▶ The tip cools as it heats the joint and the heater reheats the tip, often overshooting the set temperature.
- ▶ Conventional soldering systems require calibration.
- ▶ The actual tip temperature can vary widely from set point, slowing the process and causing thermal damage and poor solder joint quality.



## Maximum Tip Temperature for Smartheat® Soldering Cartridges and Tips

| Serie                                                                               | Part Number                                                               | Application           | Max tip temperature |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------|---------------------|
|    |                                                                           |                       |                     |
| 500                                                                                 | STTC-5xx, SMTC-5xxx, SSC-5xx                                              | Temperature Sensitive | 575°F/302°C         |
| 600                                                                                 | STTC-0xx, PTTC-6xx, UFTC-6xxxx,<br>SMTC-0xxx, TATC-6xx, SSC-6xx           | Temperature Sensitive | 675°F/357°C         |
| 700                                                                                 | STTC-1xx, PTTC-7xx, UFTC-7xxxx,<br>SMTC-1xxx, STDC-1xx, STDC-7xx, SSC-7xx | FR4/Glass Fiber       | 775°F/412°C         |
|  |                                                                           |                       |                     |
| 650                                                                                 | PHT-65xxxx                                                                | Temperature Sensitive | 680°F/360°C         |
| 750                                                                                 | PHT-75xxxx                                                                | FR4/Glass Fiber       | 780°F/416°C         |
| T                                                                                   | STP-xxxx, STV-xxxx, TTP-xxx                                               | Temperature Sensitive | 690°F/365°C         |
| F                                                                                   | SFP-xxxx, SFV-xxxx, RFP-xxx,<br>TFP-xxx, DFP-xxx                          | FR4/Glass Fiber       | 790°F/421°C         |
| C                                                                                   | SCP-xxxx, SCV-xxxx, RCP-xxx,<br>TCP-xxx, DCP-xxx                          | Ceramic               | 860°F/460°C         |