

Soldering and Rework System

Cartridge heater technology provides soldering and rework performance to suit even the most demanding SMT removal and placement applications. The cartridges provide fast thermal performance and respond quickly to the load demands. A small shaft diameter provides access to tightly cramped rework areas and enables the most difficult operations to be performed effortlessly.

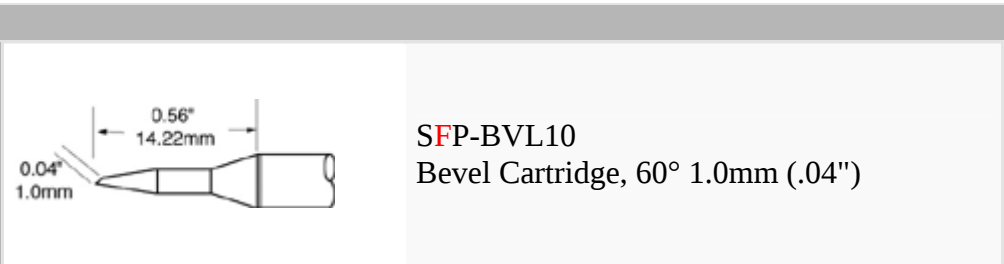


MFR-SRC SOLDERING & REWORK SYSTEM		
Part No.	Description	
MFR-SRC	Soldering and Rework System	
INCLUDES		
MFR-PS1K	Two Port Universal Voltage Power Supply	
MFR-HSR	Soldering and Rework Hand-piece	
MFR-WSSR	Soldering Workstand	

Contents subject to change without notice

Standard Soldering Tip Cartridges

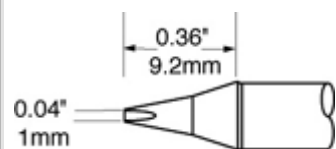
The Standard Soldering Tip Cartridges are used with the MFR-HSR Soldering & Rework Hand-piece and have been designed to deliver outstanding performance for the majority of point-to-point soldering and basic rework applications. The geometries within the range have been optimized to deliver maximum accessibility combined with optimal thermal efficiency within a narrow cartridge diameter.



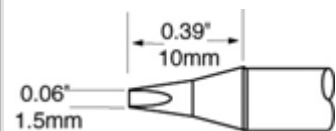
Technical Specifications

MFR-PTZ, MFR-SRC, MFR-PST, MFR-STZ

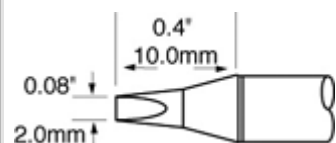
- Ambient Operating Temperature:**10- 40°C
- Maximum Enclosure Temperature:**55°C
- Input Line Voltage:**100- 240 VAC, grounded circuit
- Input Line Frequency:**50/60 Hz
- Power Consumption:**65 Watts max.
- Output Power:** 50 Watts max. at 22°C ambient temperature
- Output Frequency:**450 KHz
- Power Cord 3-Wire:**183cm (18/3") SJT
- Power Supply Dimensions w x d x h:** 122mm x 200mm x 152.5mm (4.8" x 8" x 6")
- Agency Tested Per:**IEC 61000-6-1,EC 61000-6-3 and UL499, FCC CFR Part 15
- Tip-to-Ground Potential:**< 2mV
- Tip-to-Ground Resistance:**< 2 ohms
- Idle Temperature Stability:**± 1.1°C in still air
- Hand-piece Cable Length:** L=71cm (48"), burn proof, ESD safe
- Connector:**8-pin power connector
- Workstand Dimensions w x d x h:** 100 mm x 200 mm x 100 mm (4" x 8" x 4")



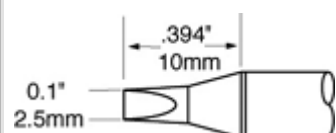
SFP-CH10
Chisel Cartridge, 30° 1.0mm (.04")



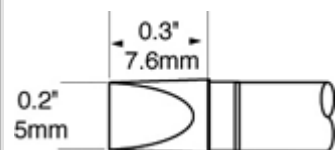
SFP-CH15
Chisel Cartridge, 30° 1.5mm (.06")



SFP-CH20
Chisel Cartridge, 30° 2.0mm (.08")



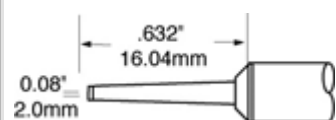
SFP-CH25
Chisel Cartridge, 30° 2.5mm (.10")



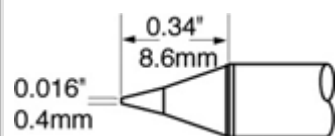
SFP-CH50
Chisel Cartridge, 30° 5.0mm (.20")



SFP-CHB15
Chisel Cartridge, 30° Bent 1.5mm (.06")



SFP-CHL20
Chisel Cartridge, 60° Long Reach 2.0mm (.08")



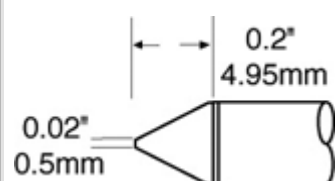
SFP-CN04
Conical Cartridge, 0.4mm (.016")

Soldering Tip Heater Options

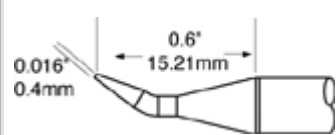
With hand soldering, the task is to make a quality solder connection, without damaging the substrate and without negatively impacting throughput. All of the standard MFR Series power tips & rework cartridges are designed for use with glass fiber (FR4) PCB substrates. This is denoted by the second letter in the part number: "F". For example: **SFP-CH10**, **D**F**P-CN3**, and **S**F**V-CNL10**.

However, some specialist applications require working with thermally demanding or temperature sensitive substrates, such as ceramic hybrids or flexible circuits. OK International has developed specialty heaters that quickly deliver the necessary power, but operate at temperatures that minimize the risk of substrate damage. These are denoted by replacing the "F" in the part number with a "T" for temperature sensitive or a "C" for demanding loads. Please contact your local representative for information and availability of specialty tip heaters. For example: **S**T**P-CH10** and **D**C**P-CN3**.

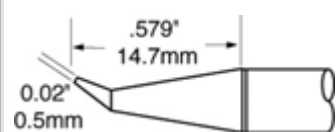
F = Standard FR4 Substrate
T = Temperature Sensitive
C = Ceramic or Heavy Load



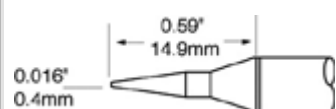
SFP-CN05
Conical Cartridge, 0.5mm (.02")



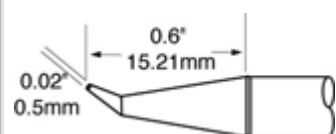
SFP-CNB04
Conical Cartridge Bent, 0.4mm (.016")



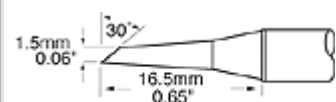
SFP-CNB05
Conical Cartridge Bent, 0.5mm (.02")



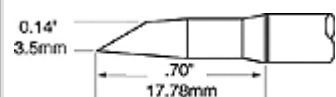
SFP-CNL04
Conical Cartridge Long Reach, 0.4mm (.016")



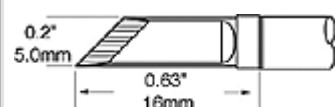
SFP-DRH05
Drag Soldering Cartridge, Hoof 0.5mm (.02")



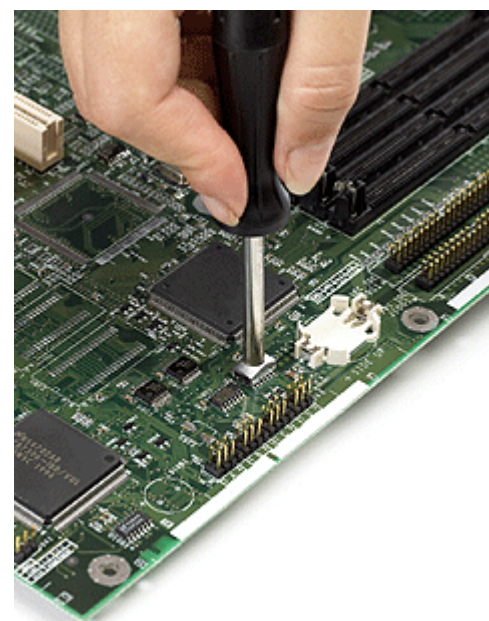
SFP-DRH15
Drag Soldering Cartridge, Hoof 1.5mm (.06")



SFP-DRH35
Drag Soldering Cartridge, Hoof 3.5mm (.14")



SFP-DRK50
Drag Soldering Cartridge, Knife 5.0mm (.20")



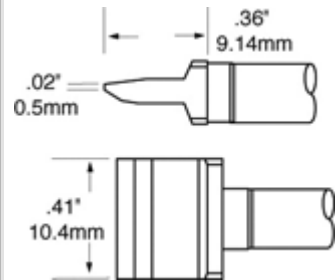
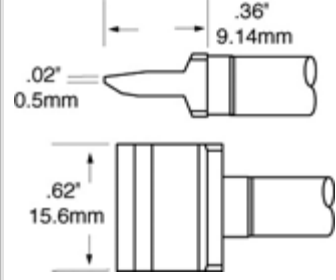
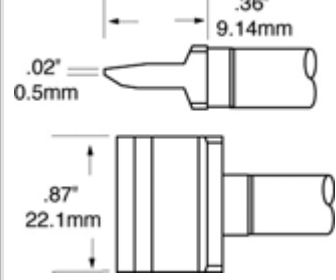
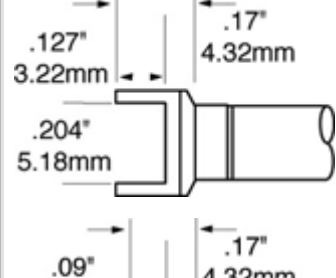
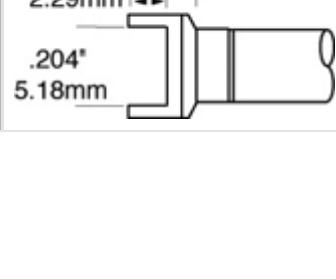
MFR-SMT in Action

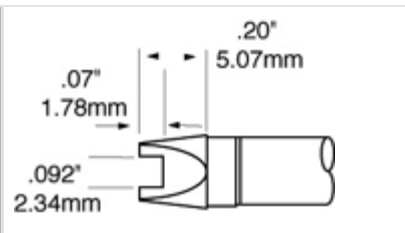
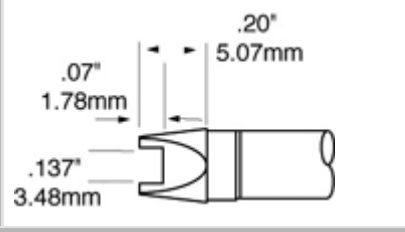
To order specialty versions of the Soldering Tip Cartridges replace the "F" in

ordering:
T = Temperature Sensitive
C = Ceramic or Heavy Load

Rework Cartridges

The Rework Cartridges are used with the MFR-HSR Soldering & Rework Hand-piece for conduction rework of surface mount components. The geometries are compatible with common SMT Chip and SOIC components.

	RFP-BL1 Blade Cartridge, 10mm (0.4")
	RFP-BL2 Blade Cartridge, 16mm (0.63")
	RFP-BL3 Blade Cartridge, 22mm (0.87")
	RFP-DL1 Tunnel Cartridge, SOIC 14-16 Chip Package
	RFP-DL2 Tunnel Cartridge, SOIC 8 Chip Package

	RFP-SL1 Slot Cartridge, 0805 Chip Package
	RFP-SL2 Slot Cartridge, 1206 Chip Package

To order specialty versions of the Rework Cartridges replace the "**F**" in the part number with the appropriate letter designate for your application when ordering:
T = Temperature Sensitive **C** = Ceramic or Heavy Load