

TO ORDER, CALL 909-625-9390

Probe Specifications MEP-20

Mechanical

Full Travel: .075 (1.91)
 Recommended Working Travel: .050 (1.27)
 Mechanical Life Exceeds: 1 x 10⁶ cycles

Operating Temperature

-55°C to +105°C
 Consult factory for other temperature requirements, and applications below -40° C.

Electrical (Static Conditions)

Current Rating: 2 amps
 Maximum continuous current, non-inductive at working travel

Probe Resistance

50 mΩ
 With a standard deviation of <4 mΩ @ 25 mA test current

Materials and Finishes

Plunger: Heat-treated beryllium copper, gold plated over hard nickel
 Barrel: Heat-treated beryllium copper, HPA-GOLD™ plated (I.D. and O.D.) over hard nickel
 Spring: Music wire, silver plated

Receptacle Specifications

Mounting Hole Size:

.0205/.0215 (0.52/0.55)
 .025 (0.635) Test Centers
 A #75 or 0.52 mm drill is most commonly used.

Recommended Wire Gauge: 30 AWG

Connections:

Crimp (To order with 30 inches of 30 AWG wire attached, add -30 to model number)
 Shrink tubing is recommended on alternating receptacles.
 Order Model No. ST-20

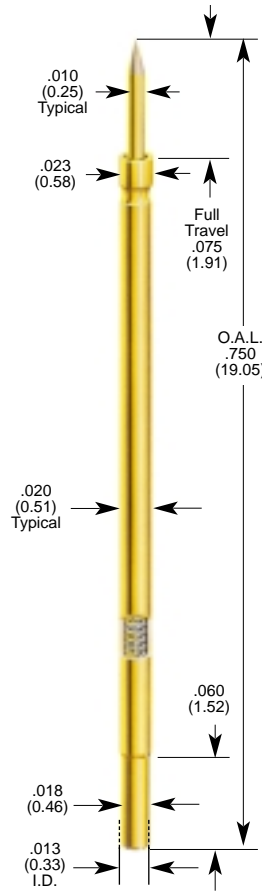
NOTE: The top of the MEP-20 barrel is flared, enabling it to be "press-fit" directly into the probe plate, eliminating the need for a receptacle or epoxy. This "press fit" feature also permits the MEP-20 to be installed in a variety of probe plate thicknesses and to be replaced easily. Recommended Probe plate materials are G-10 and G-11. The MEP-20 is terminated with the use of a crimp tool, which attaches a wire directly to the probe in the same fashion that a wire is attached to a crimp style receptacle.

Materials and Finishes

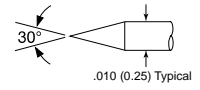
Heat-treated beryllium copper, HPA-GOLD™ plated (I.D. and O.D.) over hard nickel

Spring Force in oz. (grams)

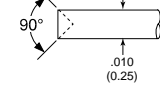
Spring Type	Preload	Recommended Travel in. (mm.)	Force oz. (grams)
MEP-20	.39 (11)	.05 (1.27)	1.39 (39)



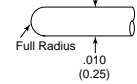
MEP-20B



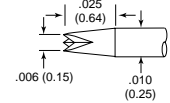
MEP-20G



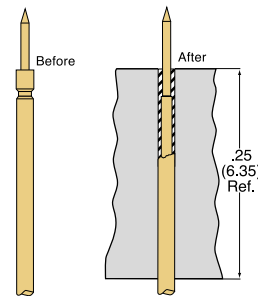
MEP-20J



MEP-20U



MEP-20



MEP-20
Typical
Installation

Application Notes for MEP-20

1. The MEP-20 can also be mounted in a staggered pattern to access test pads on centers less than .025".
2. Recommended wire gauge 30 AWG, maximum insulation dia. .019 (0.48).
3. Shrink tubing is recommended for use on alternating receptacles to reduce the possibility of electrical shorting. Order Model No. ST-20.
4. A probe insertion tool is available, see PIT-20, page 66.



Bare PCB Test Probes