

TO ORDER, CALL 909-625-9390

Probe Specifications HPA-52

Mechanical

Full Travel: .075 (1.91)
 Recommended Working Travel: .075 (1.91)
 Mechanical Life Exceeds: .250 x 10⁶ cycles

Operating Temperature

-55°C to +150°C
 Consult factory for other temperature requirements, and applications below -40° C.

Electrical (Static Conditions)

Current Rating: 3 amps
 Maximum continuous current, non-inductive at working travel

Probe Resistance

15 mΩ
 With a standard deviation of <5 mΩ @ 25 mA test current

Materials and Finishes

Plunger: Heat-treated beryllium copper, gold plated over hard nickel
 Barrel: Work-hardened phosphor bronze, HPA-GOLD™ plated (I.D. and O.D.) over hard nickel
 Spring: Stainless steel, silver plated

Receptacle Specifications

Mounting Hole Size: .053/.055 (1.35/1.40)
 A #54 or 1.44 mm drill is most commonly used.

Recommended Wire Gauge: 24-28 AWG

Connections:

SPR-1W Crimp
 SPR-1W-1 Solder cup
 SPR-1W-2/SPR-1W-2M Wire wrap/square post. Vacuum leak rate not to exceed 1 x 10⁻⁴ CFM @ 15 psi

Materials and Finishes

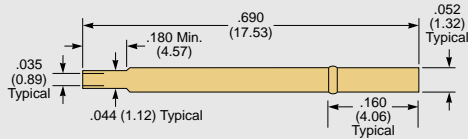
Housing: Work-hardened nickel silver, gold plated over hard nickel
 Square Post: Phosphorous bronze, gold plated

Spring Force in oz. (grams)

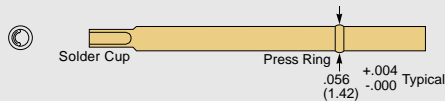
Spring Type	Preload	3/4 Travel
Standard as shown	1.68 (48)	3.22 (91)
Alternate -1	2.54 (72)	6.2 (176)

Optional spring forces and materials are available.

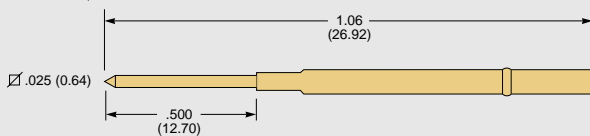
SPR-1W



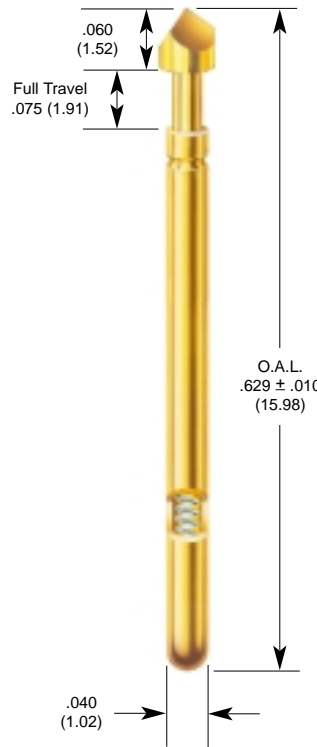
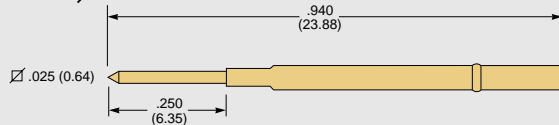
SPR-1W-1



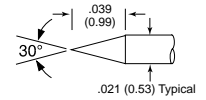
SPR-1W-2



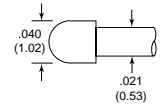
SPR-1W-2M



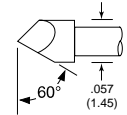
HPA-52B



HPA-52D



HPA-52T



HPA-52



Bare PCB Test Probes

