

Test Centers

.100 (2.54)
.156 (3.96)
.187 (4.75)

HPA-74

**High-Performance
 Long-Travel Probe**

TO ORDER, CALL 909-625-9390

Probe Specifications HPA-74

Mechanical

Full Travel: .100 (2.54)
 Recommended Working Travel: .075 (1.91)
 Mechanical Life Exceeds: 2×10^6 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

35 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: Phosphor bronze, HPA-GOLD™ plated (I.D. and O.D.) over hard nickel
 Spring: Stainless steel, silver plated
 Alt Spring: Music wire, silver plated

Receptacle Specifications

Mounting Hole Size: .067/.069 (1.7/1.75)
 A #51 or 1.75 mm drill is most commonly used.

Recommended Wire Gauge: 26-30 AWG

Connections: EPR-74W-2 Wire wrap/square post, 100% vacuum sealed

Materials and Finishes Nickel silver alloy

Hole Diameters to be Contacted

HPA-74A lands and pads
 HPA-74B lands and pads
 HPA-74C lands and pads
 HPA-74E up to .073 (1.85)
 HPA-74T65 up to .058 (1.47)
 HPA-74T75 up to .070 (1.78)
 HPA-74T80 up to .073 (1.85)
 HPA-74T135 up to .125 (3.18)
 HPA-74T156 up to .150 (3.81)

The HPA-74 can be used to test bare PCBs on Mixed test centers with the HPA-0 and HPA-1, see pages 22 and 24.

Spring Force in oz. (grams)

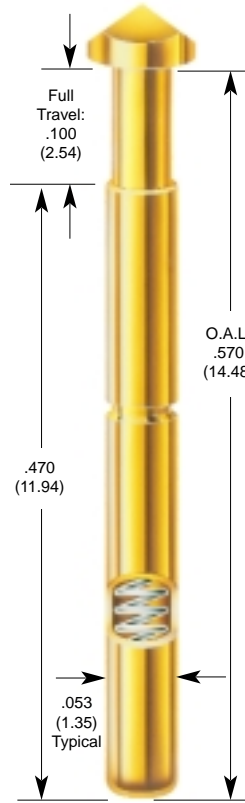
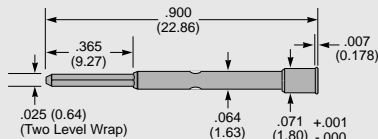
Spring Type	Preload	3/4 Travel
Standard	as shown	1.71 (48) 3.0 (85)
Alternate	-1	2.82 (80) 5.0 (141)

To order, add dash number to Model Number.
 Optional spring forces and materials are available.

Recommended Test Centers

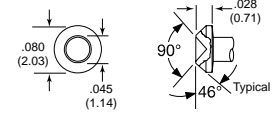
HPA-74A, B, C, E, T65, T75, T80	.100 (2.54)
HPA-74T135	.156 (3.96)
HPA-74T156	.187 (4.75)

EPR-74W-2

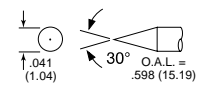


HPA-74

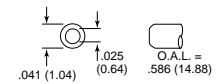
HPA-74A



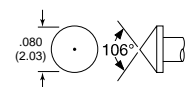
HPA-74B



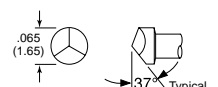
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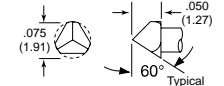
HPA-74E



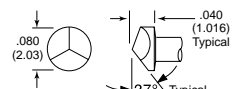
HPA-74T65



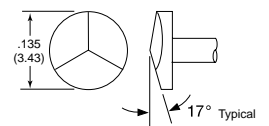
HPA-74T75



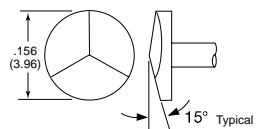
HPA-74T80



HPA-74T135



HPA-74T156



Bare PCB Test Probes