

High-Performance & Standard Probes

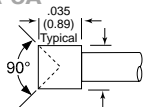
HPA-O SPA-O

Test Center

.050 (1.27)

TO ORDER, CALL 909-625-9390

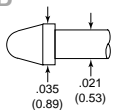
HPA-OA SPA-OA



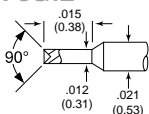
HPA-OB SPA-OB



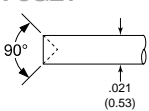
HPA-OD SPA-OD



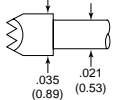
HPA-OG12 SPA-OG12



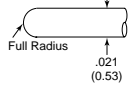
HPA-OG21 SPA-OG21



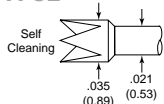
HPA-OH SPA-OH



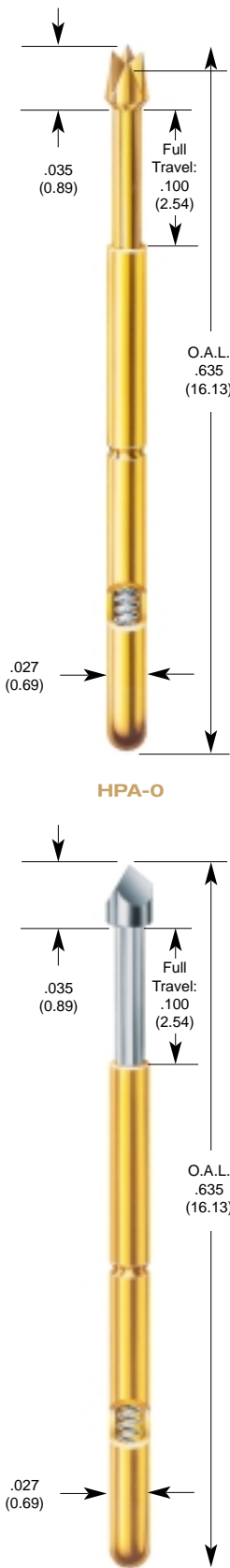
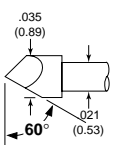
HPA-OJ SPA-OJ



HPA-OL SPA-OL



HPA-OT SPA-OT



HPA-O

SPA-O

Probe Specifications

	HPA-O	SPA-O
Mechanical		
Full Travel:	.100 (2.54)	.100 (2.54)
Recommended Working Travel:	.067 (1.70)	.067 (1.70)
Mechanical Life Exceeds:	1 x 10 ⁶ cycles	1 x 10 ⁶ cycles
Operating Temperature		
Standard spring:	-55°C to +150°C	-55°C to +150°C
Alternate spring:	-55°C to +105°C	-55°C to +105°C
Consult factory for other temperature requirements, and applications below -40° C.		
Electrical (Static Conditions)		
Current Rating:	3 amps	3 amps
Maximum continuous current, non-inductive at working travel		
Probe Resistance	35 mΩ	50 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	Heat-treated beryllium copper, rhodium plated over hard nickel
Barrel:	Work-hardened phosphor bronze, HPA-GOLD™ plated (I.D. and O.D.) over hard nickel	Work-hardened phosphor bronze, HPA-GOLD™ plated (I.D. and O.D.) over hard nickel
Spring:		
Standard:	Stainless steel, silver plated	Stainless steel, silver plated
Alternate:	Music wire, silver plated	Music wire, silver plated

Receptacle Specifications

Mounting Hole Size:	.035/.0365 (0.89/0.93)	.035/.0365 (0.89/0.93)
A #64 or 0.92 mm drill is most commonly used.		
Recommended Wire Gauge:	28-30 AWG	28-30 AWG
Connections:	<p>SPR-0W Crimp (To order with 30 inches of 28 AWG wire attached, add -28 to model number. For 30 AWG wire, add -30 to model number.)</p> <p>SPR-0W-1 Solder cup</p> <p>SPR-0W-4 FASTITE® wire termination (30 AWG only), maximum insulation diameter .019 (0.48), wire strip length = .125 (3.2)</p> <p>DS-62-1 Insulation sleeve (use with SPR-0W-4)</p> <p>FWA-1-30 30 AWG wire with DS-62-1 insulation sleeve attached</p>	<p>SPR-0W Crimp (To order with 30 inches of 28 AWG wire attached, add -28 to model number. For 30 AWG wire, add -30 to model number.)</p> <p>SPR-0W-1 Solder cup</p> <p>SPR-0W-4 FASTITE® wire termination (30 AWG only), maximum insulation diameter .019 (0.48), wire strip length = .125 (3.2)</p> <p>DS-62-1 Insulation sleeve (use with SPR-0W-4)</p> <p>FWA-1-30 30 AWG wire with DS-62-1 insulation sleeve attached</p>
Materials and Finishes	Work-hardened nickel silver, gold plated over hard nickel	Work-hardened nickel silver, gold plated over hard nickel

One DS-62-1 sleeve is provided with each SPR-0W-4 receptacle at no charge. If additional quantities are required, please contact the factory for pricing and delivery.

The HPA-O and SPA-O may be used to test bare PCBs on mixed test centers with the HPA-1 and HPA-74 probes, see pages 24 and 27.

Spring Force in oz. (grams)

Spring Type	Preload	2/3 Travel
Standard	as shown .61 (17)	2.8 (79)
Alternate	-1 .78 (22)	3.7 (105)

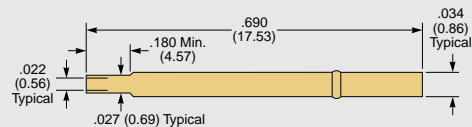
Optional spring forces and materials are available.

To order, add dash number to Model Number.

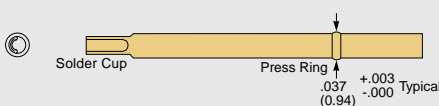
Standard as shown .61 (17) 2.8 (79)
Alternate -1 .78 (22) 3.7 (105)

Optional spring forces and materials are available.

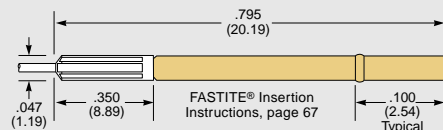
SPR-0W



SPR-0W-1



SPR-0W-4 (Shown with DS-62-1 installed)



Other applications:

Bare PCB Test Probes

Actual Sizes Dimensions in inches (millimeters)

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