

Standard-Performance Probe

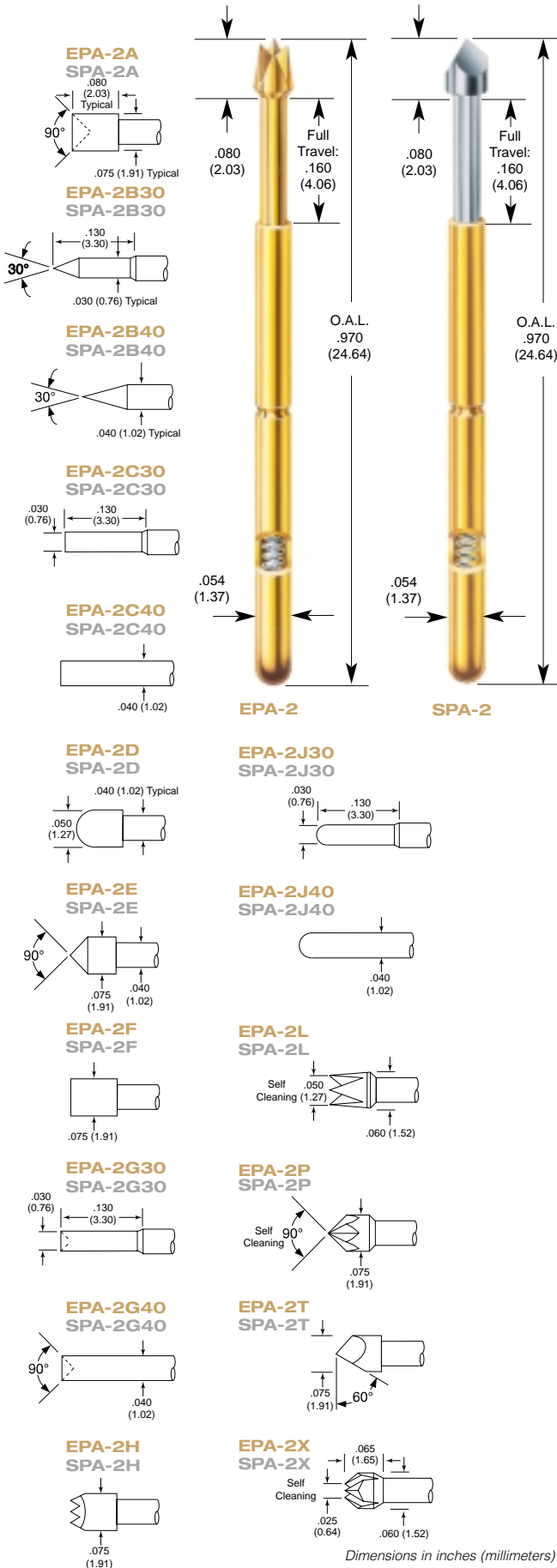
EPA-2 SPA-2

Test Centers

.100 (2.54)

TO ORDER, CALL 909-625-9390

Bare PCB Test Probes



Probe Specifications EPA-2 SPA-2

Mechanical		
Full Travel:	.160 (4.06)	.160 (4.06)
Recommended Working Travel:	.107 (2.72)	.107 (2.72)
Mechanical Life Exceeds:	2 x 10 ⁶ cycles	2 x 10 ⁶ cycles
Operating Temperature	-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:	5 amps	5 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 <7 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 nickel silver, gold plated (I.D. and O.D.) over hard nickel	Work-hardened nickel silver, gold plated (I.D. and O.D.) over hard nickel
Spring:	Music wire, silver plated	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.	.067/.069 (1.7/1.75)
Recommended Wire Gauge:	22-26 AWG	22-26 AWG
Connections:	SPR-2W Crimp or push on termination (AMP terminal 60983-1 or equivalent) SPR-2W-1 Solder cup SPR-2W-2 Wire wrap/square post. Vacuum leak rate not to exceed 1 x 10 ⁻⁴ CFM @ 15 psi SPR-2W-3 Connector pin/round post SPR-2Y push on termination	SPR-2W Crimp or push on termination (AMP terminal 60983-1 or equivalent) SPR-2W-1 Solder cup SPR-2W-2 Wire wrap/square post. Vacuum leak rate not to exceed 1 x 10 ⁻⁴ CFM @ 15 psi SPR-2W-3 Connector pin/round post SPR-2Y push on termination

Materials and Finishes		
Housing:	Work-hardened nickel silver, gold plated over hard nickel	Work-hardened nickel silver, gold plated over hard nickel
Round Post:	Phosphor bronze, gold plated	Phosphor bronze, gold plated
Square Post:	Phosphor bronze, gold plated	Phosphor bronze, gold plated

PE Series: Dimensionally identical to EPA-2. The PE Series replaceable probe has a slight bulge at the end of the barrel and is designed for use in receptacles lacking detents. To order, write the letter "P" after the model number. Example: EPA-2P, EPA-2AP-1.

Spring Force in oz. (grams)

Spring Type	Preload	2/3 Travel
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To order, add dash number to Model Number.		
Standard as shown	1.08 (31)	3.5 (99)
Alternate -1	2.64 (75)	6.5 (184)
Ultra High -2	4.09 (116)	10.0 (283)

Optional spring forces and materials are available.

