POGO® Contacts



ICT/FCT

GENERAL PURPOSE HIGH CURRENT HIGH FREQUENCY SWITCH PROBE STEP PROBE BATTERY CONTACT SEMICONDUCTOR













GENERAL PURPOSE - REPLACEABLE PROBES

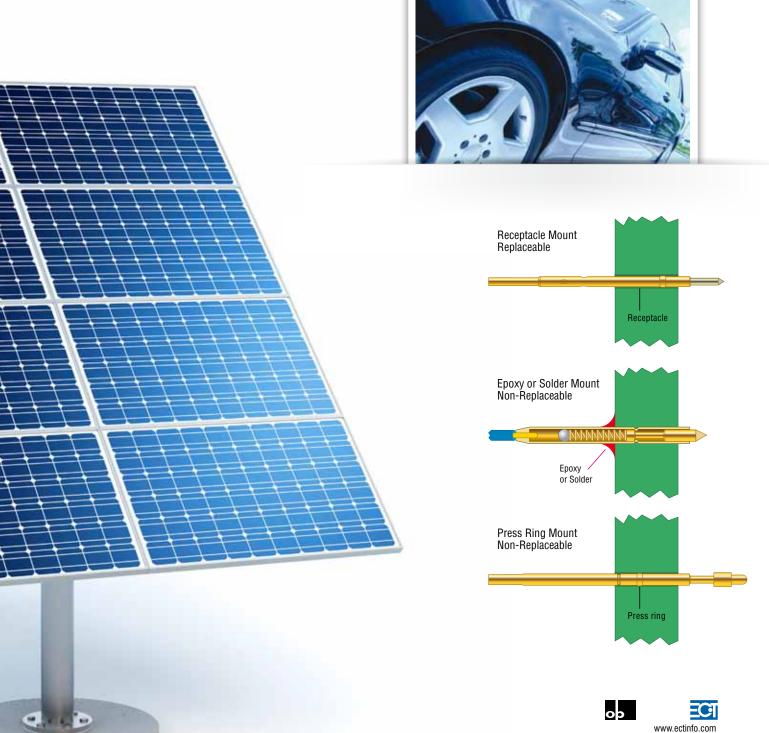
Replaceable Probes are those designed for typical Automotive and Industrial Board Test and standard continuity test, contacting industry norm test points such as leads, vias and pads.

All of the probes in this section are designed for high volume testing and are replaceable through the use of a mating receptacle mounted into a retaining plate or retaining block via a "press-ring" or knurl.

A replaceable probe is retained by a separate component, the receptacle, which is permanently fixed into a retention plate to which electrical connection is made. Removal of the probe does not damage or break the electrical connection. Typical probe retention is achieved by detents in the receptacle or additionally with a "Pylon" bend in the probe itself to prevent anti walkout.

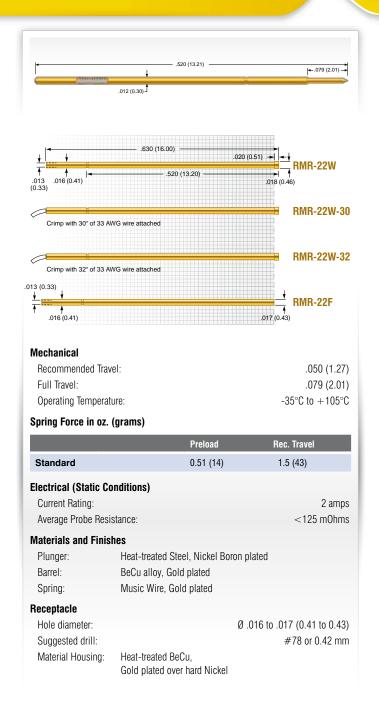
ECT offers an extensive selection of General Purpose Probes for a wide variety of application in various industries, making ECT spring probes the first choice of test engineers worldwide.

Replaceable



RMP-22B

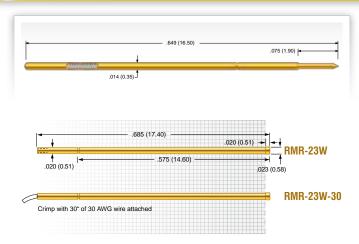
20 mil (0.51 mm)



Tip Style		
В		
Ø .008 (0.20)		

RMPJ-23B

30 mil (0.76 mm)



Mechanical

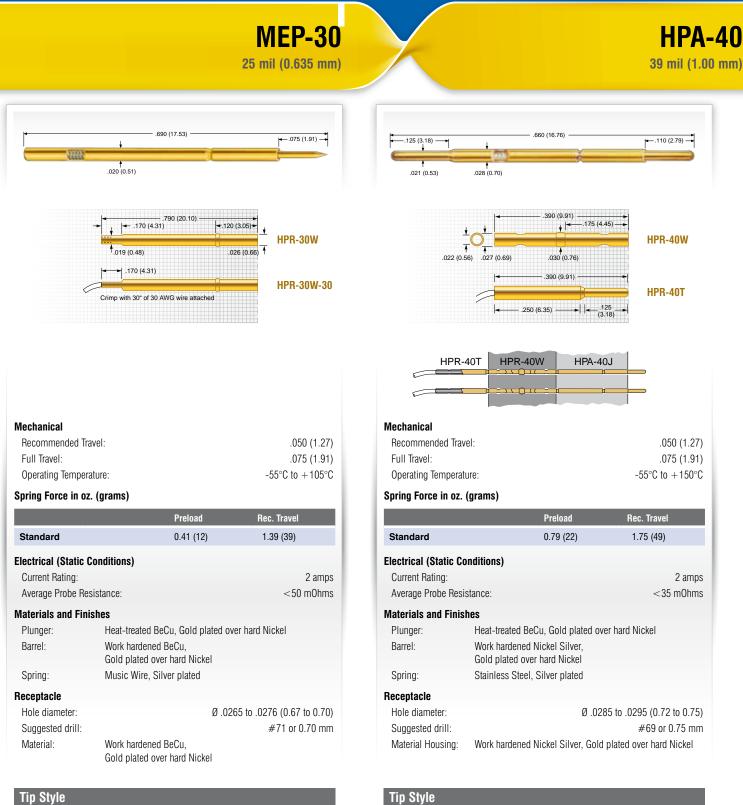
Recommended Travel:	.050 (1.27)
Full Travel:	.075 (1.90)
Operating Temperature:	-50°C to $+150°C$

Spring Force in oz (grams)

Spring Force in oz. (grams)		
		Preload	Rec. Travel
Standard		0.23 (8)	1.1 (31)
Electrical (Static Co	nditions)		
Current Rating:			2 amps
Average Probe Resis	stance:		<125 m0hms
Materials and Finish	ies		
Plunger:	Heat-treated Ste	el, Nickel Boron	plated
Barrel:	Phosphor Bronze	e, Gold plated	
Spring:	Stainless Steel,	Gold plated	
Receptacle			
Hole diameter:		Ø	.020 to .021 (0.52 to 0.54)
Suggested drill:			#76 or 0.52 mm
Material Housing:	Phosphor Bronze	e, Gold plated	

Tip Style		
В		
Ø .009 (0.23)		

ECI



В

Ø.021 (0.53)

C

Ø.021 (0.53)

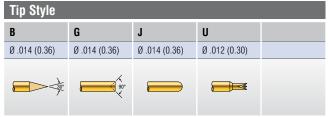
G

Ø.021 (0.53)

J

ob

Ø.021 (0.53)



662A (1.27 mm)					P26 50 mil (1				
-	↓ .027 (0.69)	.710 (18.03) ———		←130 (3.30) →		↓ .027 (0.69) —	.575 (14.60) —		↓
, - , - , - , - , - , - , - , - , - , -	⊢. 110 (2.79) (÷ •	041 (1.04) 0285 (0.72)	S2662A-3ED Collar height = .040 (1.02)		 4. 4.180 → (4.57) 4.57)) (2.54)	PR261-0 Collar heigh = .040 (1.0 PR261-0F
							690 (17.53)	.037 (0.94)	Flush Moun PR261-1 Collar heigh
									= .040 (1.0 PR261-1F Flush Moun
Mechanical Recommendec Full Travel: Operating Tem				.067 (1.70) .090 (2.29) -55°C to +105°C	Full Trave	ended Travel:			PR261-1F
Recommendec Full Travel:	perature: oz. (grams)			.090 (2.29) -55°C to +105°C	Recomm Full Trave Operating	ended Travel: l: Temperature: ce in oz. (grams)			PR261-1F Flush Moun .050 (1.2 .068 (1.7 -55°C to +105
Recommended Full Travel: Operating Tem Spring Force in	oerature: oz. (grams) Order Code	Preload		.090 (2.29) -55°C to +105°C lec. Travel	Recomm Full Trave Operating Spring Fo	ended Travel: l: Temperature: ce in oz. (grams) Order Code	Preloa	d R	PR261-1F Flush Moun .050 (1.2 .068 (1.7 -55°C to +105 ec. Travel
Recommendec Full Travel: Operating Tem	perature: oz. (grams)	Preload 0.70 (20) 0.60 (17)		.090 (2.29) -55°C to +105°C	Recomm Full Trave Operating	ended Travel: l: Temperature: ce in oz. (grams) Order Code 1 1	Preloa 1.00 (2 0.50 (1	id Ri 28) -	PR261-1F Flush Moun .050 (1.2 .068 (1.7 -55°C to +105
Recommended Full Travel: Operating Tem Spring Force in Standard	operature: oz. (grams) Order Code 1 2 ic Conditions)	0.70 (20)		.090 (2.29) -55°C to +105°C lec. Travel 1.7 (48)	Recomm Full Trave Operating Spring For Standard Alternate Electrical Current F	ended Travel: I: Temperature: ce in oz. (grams) Order Code 1 1 2 2 (Static Conditions)	1.00 (2 0.50 (1	id Ri 28) -	PR261-1F Flush Moun .050 (1.2 .068 (1.7 -55°C to +105 ec. Travel 1.8 (51)
Recommended Full Travel: Operating Tem Spring Force in Standard Alternate Electrical (Stat Current Rating: Average Probe Materials and I Plunger: Barrel: Spring:	oerature: oz. (grams) Order Code 1 2 ic Conditions) Resistance: inishes Hardened I Phosphoro BeCu, Silv	0.70 (20) 0.60 (17) BeCu, Gold plated us Bronze, Gold p er plated	1	.090 (2.29) -55°C to +105°C ec. Travel 1.7 (48) 2.5 (71) 3 amps	Recomm Full Trave Operating Spring For Standard Alternate Electrical Current F Average Materials Plunger: Barrel: Spring:	ended Travel: I: Temperature: ce in oz. (grams) Order Code 1 2 (Static Conditions) ating: Probe Resistance: and Finishes Harden Phosph BeCu, S	1.00 (2 0.50 (1 ed BeCu, Gold pla orous Bronze, Go Silver plated	nd Ri 28) - 14) 2 ated	PR261-1F Flush Moun .050 (1.2 .068 (1.7 -55°C to +105 ec. Travel 1.8 (51) 2.5 (71) 3 am
Recommended Full Travel: Operating Tem Spring Force in Standard Alternate Electrical (Stat Current Rating: Average Probe Materials and I Plunger: Barrel:	oerature: oz. (grams) Order Code 1 2 ic Conditions) Resistance: inishes Hardened I Phosphoro BeCu, Silv Stainless S	0.70 (20) 0.60 (17) BeCu, Gold plated us Bronze, Gold p er plated Steel	d olated	.090 (2.29) -55°C to +105°C ec. Travel 1.7 (48) 2.5 (71) 3 amps	Recomm Full Trave Operating Spring For Standard Alternate Electrical Current F Average Materials Plunger: Barrel:	ended Travel: I: Temperature: ce in oz. (grams) Order Code 1 2 (Static Conditions) ating: Probe Resistance: and Finishes Harden Phosph BeCu, S Stainles e neter: d drill:	1.00 (2 0.50 (1 ed BeCu, Gold pla orous Bronze, Go Silver plated	d R 28) - 14) 2 ated Id plated Ø .0350 to .03	PR261-1F Flush Moun .050 (1.2 .068 (1.7 -55°C to +105 ec. Travel 1.8 (51) 2.5 (71) 3 am
Recommended Full Travel: Operating Tem Spring Force in Standard Alternate Electrical (Stat Current Rating: Average Probe Materials and I Plunger: Barrel: Spring: Ball: Receptacle Hole diameter: Suggested dril	oerature: oz. (grams) Order Code 1 2 ic Conditions) Resistance: inishes Hardened I Phosphoro BeCu, Silv Stainless S	0.70 (20) 0.60 (17) BeCu, Gold plated us Bronze, Gold p er plated Steel	d olated	.090 (2.29) -55°C to +105°C Rec. Travel 1.7 (48) 2.5 (71) 3 amps <30 mOhms	Recomm Full Trave Operating Spring For Standard Alternate Electrical Current F Average Materials Plunger: Barrel: Spring: Ball: Receptacl Hole diar Suggeste	ended Travel: I: Temperature: ce in oz. (grams) Order Code 1 2 (Static Conditions) ating: Probe Resistance: and Finishes Harden: Phosph BeCu, S Stainle: e heter: d drill: Housing: Nickel S	1.00 (2 0.50 (1 ed BeCu, Gold pla orous Bronze, Go Silver plated ss Steel	d R 28) - 14) 2 ated Id plated Ø .0350 to .03	PR261-1F Flush Moun .050 (1.2 .068 (1.7 -55°C to +105 ec. Travel 1.8 (51) 2.5 (71) 3 arr < 30 mOhn 365 (0.89 to 0.5
Recommended Full Travel: Operating Tem Spring Force in Standard Alternate Electrical (Stat Current Rating: Average Probe Materials and I Plunger: Barrel: Spring: Ball: Receptacle Hole diameter: Suggested dril Material Housi	oerature: oz. (grams) Order Code 1 2 ic Conditions) Resistance: Finishes Hardened I Phosphoro BeCu, Silv Stainless S I: ng: Brass, Gold	0.70 (20) 0.60 (17) BeCu, Gold plated us Bronze, Gold p er plated Steel	d olated	.090 (2.29) -55°C to +105°C Rec. Travel 1.7 (48) 2.5 (71) 3 amps <30 mOhms	Recomm Full Trave Operating Spring For Standard Alternate Electrical Current F Average Materials Plunger: Barrel: Spring: Ball: Receptacl Hole diar Suggeste Material	ended Travel: I: Temperature: ce in oz. (grams) Order Code 1 2 (Static Conditions) ating: Probe Resistance: and Finishes Harden: Phosph BeCu, S Stainle: e heter: d drill: Housing: Nickel S	1.00 (2 0.50 (1 ed BeCu, Gold pla orous Bronze, Go Silver plated ss Steel	d R 28) - 14) 2 ated Id plated Ø .0350 to .03	PR261-1F Flush Moun .050 (1.2 .068 (1.7 -55°C to +105 ec. Travel 1.8 (51) 2.5 (71) 3 arr < 30 mOhn 365 (0.89 to 0.5

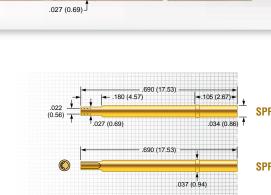
Dimensions in inches (millimeters) Specifications subject to change without notice

r= .013 (0.33)



r= .013 (0.33)

High Performance Short Travel Probe

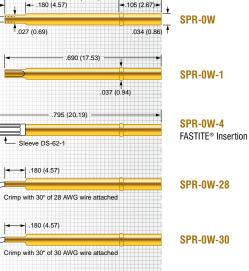


0

Sleeve DS-62-1

.180 (4.57)

.590 (14.99)



Tip Style					
В	D	G	T	U	
Ø .021 (0.53)	Ø .035 (0.89)	Ø .021 (0.53)	Ø .035 (0.89)	Ø .018 (0.46)	
90°		90°	45		

50 mil (1.27 mm)

General Purpose

HPA-50

Mechanical			
Recommended 1	ravel:		.050 (1.27)
Full Travel:			.050 (1.27)
Operating Tempe	erature:	-55	°C to +105°C
Spring Force in o	oz. (grams)		
	Pre	load	Rec. Travel
Standard	1.18	3 (33)	3.2 (91)
Electrical (Static	Conditions)		
Current Rating:	,		3 amps
Average Probe R	esistance:		<35 mOhms
Materials and Fi			
Plunger:	Heat-treated E	еСи	
r lunger.	Gold plated ov	,	Nickel
Barrel:	Work hardene	d Phospl	nor Bronze,
	Gold plated ov	/er hard	Nickel
Spring:	Music Wire, G	iold plate	ed
Receptacle			
Hole diameter:	Ø .035 t	0.0365	(0.89 to 0.93)
Suggested drill:		#6	64 or 0.92 mm
Material Housing	g:Nickel Silver,		
	Gold plated ov	/er hard	Nickel







Replaceable Probe



Т

Ø .035 (0.89)

L

Ø .035 (0.89)

Mechanical

Recommended Travel:	.067 (1.70)
Full Travel:	.100 (2.54)
Operating Temperature • Standard Spring: • Alternate Spring:	-55°C to +150°C -55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		1.20 (34)	2.8 (79)
Alternate	- 1	0.91 (26)	3.7 (105)

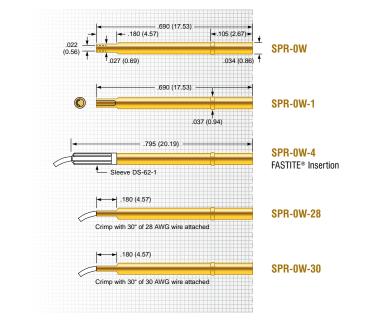
Electrical (Static Conditions)

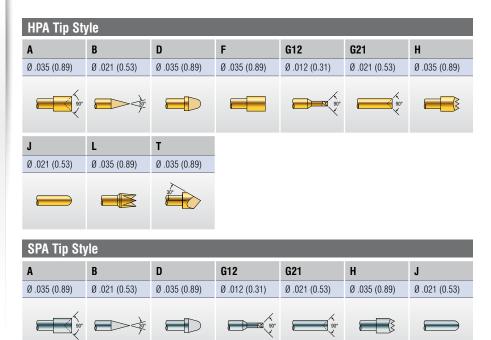
Current Rating:	3 amps
Average Probe Resistance HPA:	<35 m0hms
Average Probe Resistance SPA:	<50 mOhms

Materials and Finishes

Plunger HPA:	Heat-treated BeCu, Gold plated over hard Nickel
Plunger SPA:	Heat-treated BeCu, Rhodium plated over hard Nickel
Barrel:	Work hardened Phosphor Bronze, Gold plated over hard Nickel
Spring	
 Standard: 	Stainless Steel, Silver plated
Alternate:	Music Wire, Silver plated
Receptacle	

Hole diameter: Ø .035 to .0365 (0.89 to 0.93) Suggested drill: #64 or 0.92 mm Material Housing:Nickel Silver, Gold plated over hard Nickel





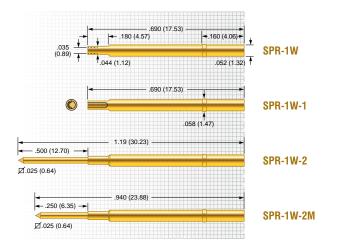


www.ectinfo.com

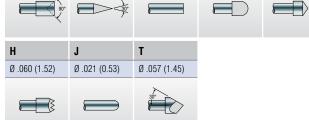
op m



HPA-1 / SPA-1 75 mil (1.91 mm)



HPA Tip Sty	yle					
Α	В	C	D	E	F	G
Ø .060 (1.52)	Ø.021 (0.53)	Ø .021 (0.53)	Ø .040 (1.02)	Ø .060 (1.52)	Ø .060 (1.52)	Ø.021 (0.53)
				90°		90°
Н	J	L	Т			
Ø .060 (1.52)	Ø .021 (0.53)	Ø .042 (1.07)	Ø .057 (1.45)			
			30"			
SPA Tip Sty	<i>y</i> le					
Α	В	C	D	E	F	G
Ø .060 (1.52)	Ø .021 (0.53)	Ø .021 (0.53)	Ø .040 (1.02)	Ø .060 (1.52)	Ø .060 (1.52)	Ø .021 (0.53)



Dimensions in inches (millimeters)
Specifications subject to change without notice

Mechanical				
Recommended ⁻	Travel:		.067 (1.70)	
Full Travel:			.100 (2.54)	
Operating Temp	erature:	-5	5°C to +150°C	
Spring Force in (oz. (grams	;)		
0	rder Code	Preload	Rec. Travel	
Standard		1.35 (38)	2.5 (71)	
Alternate -	1	1.27 (36)	4.5 (128)	
Electrical (Statio	: Conditior	ıs)		
Current Rating:		,	3 amps	
Average Probe F	Resistance I	HPA:	<35 m0hms	
Average Probe F	Average Probe Resistance SPA: <50 mOhms			
Materials and Finishes				
Plunger HPA:	,			
51 054		ed over hard	d Nickel	
Plunger SPA:		ted BeCu, plated over	hard Nickel	
Barrel			phor Bronze,	
Danci.		ed over hard	·	
Spring:	Stainless Steel, Silver plated			
Receptacle				
Hole diameter:	Ø	.053 to .05	5 (1.35 to 1.40)	
Suggested drill:		#	≠54 or 1.40 mm	
Material Housing	g:Nickel Si	lver, Gold p	lated	
Material Post:	Phospho	rous Bronze	, Gold plated	







Replaceable Probe



Mechanical

Recommended Travel:	.075 (1.91)
Full Travel:	.075 (1.91)
Operating Temperature:	-55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		1.68 (48)	3.22 (91)
Alternate	- 1	2.45 (69)	6.20 (176)

Electrical (Static Conditions)

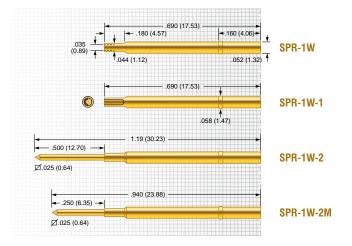
Current Rating:	3 amps
Average Probe Resistance:	<15 mOhms

Materials and Finishes

Plunger:	Heat-treated BeCu,
	Gold plated over hard Nickel
Barrel:	Work hardened Phosphor Bronze,
	Gold plated over hard Nickel
Spring:	Stainless Steel. Silver plated

Receptacle

Hole diameter:	Ø .053 to .055 (1.35 to 1.40)
Suggested drill:	#54 or 1.40 mm
Material Housing	Nickel Silver, Gold plated
Material Post:	Phosphorous Bronze, Gold plated



HPA Tip Style					
В	D	т			
Ø.021 (0.53)	Ø .040 (1.02)	Ø .057 (1.45)			
30°		35			



ECI

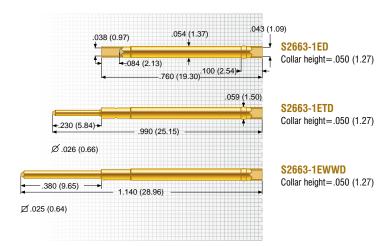


Pylon Probe

General Purpose

.067 (1.70)





Tip Style						
10	1R	3R	1P	1V	1W	
Ø .030 (0.76)	Ø .030 (0.76)	Ø .030 (0.76)	Ø.060 (1.52)	Ø .050 (1.27)	Ø .060 (1.52)	
60°	r= .018 (0.46)	r=.019 (0.48)	90°	120°		

Spring Force in oz. (grams)	
Operating Temperature:	-55°C to $+150°$ C
Full Travel:	.090 (2.29)
Recommended Travel:	.067 (1.70)

Mechanical

	Order Code	Preload	Rec. Travel	
Standard	- 1	1.50 (42)	3.3 (94)	
Alternate	- 2	1.00 (28)	2.0 (57)	
Electrical (Static Conditions) Current Rating: 3 amps Average Probe Resistance: <10 mOhms				
Materials and	d Finishes			
Plunger:	Hardeneo	d BeCu, Gold	plated	
Barrel:	Phospho	Phosphorous Bronze, Gold plated		
Spring:	Stainless	Stainless Steel		
Ball:	Stainless	Stainless Steel		

Probe Overall Length

Model No.	Overall Length (Dim. A)
P2663G	.810 (20.57)
P2663G-3R	.770 (19.56)

Receptacle

Hole diameter:	Ø .0561 to .0576 (1.43 to 1.46)
Suggested drill:	1.45 mm
Material Housing	Brass, Gold plated
Material Post:	Phosphorous Bronze, Gold plated





op

Replaceable Probe



Mechanical

Recommended Travel:	.075 (1.91)
Full Travel:	.100 (2.54)
Operating Temperature • Standard Spring: • Alternate Spring:	-55°C to +150°C -55°C to +105°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		1.76 (50)	3.0 (85)
Alternate	- 1	2.82 (80)	5.0 (141)

Electrical (Static Conditions)

Current Rating:	3 amps
Average Probe Resistance:	<35 mOhms

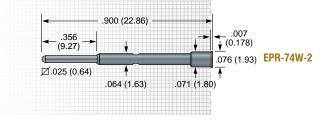
Materials and Finishes

Plunger:	Heat-treated BeCu,	
	Gold plated over hard Nickel	
Barrel:	Work hardened Phosphor Bronze,	
	Gold plated over hard Nickel	
Spring		
 Standard: 	Stainless Steel, Silver plated	
 Alternate: 	Music Wire, Silver plated	
Prohe Averall Length		

Probe Overall Length

Model No.	Overall Length (Dim. A)
HPA-74	.570 (14.48)
HPA-74B	.598 (15.19)
HPA-74C	.586 (14.88)
Receptacle	G 007 to 000 (1 70 to 1 70)
Hole diameter:	Ø .067 to .069 (1.70 to 1.75)

noie ulaillelei.	ש. 1007 נט. 1009 (1.70 נט 1.	10)
Suggested drill:	#51 or 1.70 r	nm
Material:	Nickel Silver alloy	



HPA Tip Style					
Α	В	C	E	T65	T75
Ø .080 (2.03)	Ø .041 (1.04)	Ø .041 (1.04)	Ø .080 (2.03)	Ø .065 (1.65)	Ø .075 (1.91)
			· •		
.045 (1.14)				7 3/ J=	
.043 (1.14) > 46° + 1	T135	T156		7 31 JF	
- 1-	T135 Ø .135 (3.43)			, si te	

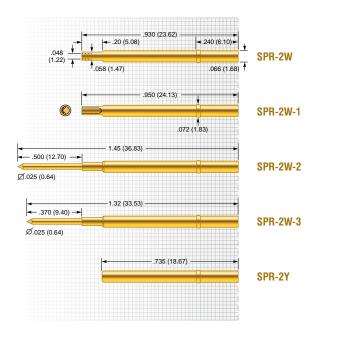


ECI





EPA-2 / SPA-2 100 mil (2.54 mm)



EPA / SPA 1	Tip Style					
A	B30	B40	C30	C40	D	E
Ø .075 (1.91)	Ø .030 (0.76)	Ø .040 (1.02)	Ø .030 (0.76)	Ø .040 (1.02)	Ø .050 (1.27)	Ø .075 (1.91)
90°						90°
F	G30	G40	Н	J30	J40	L
Ø .075 (1.91)	Ø .030 (0.76)	Ø .040 (1.02)	Ø .075 (1.91)	Ø .030 (0.76)	Ø .040 (1.02)	Ø .050 (1.27)
		90° •				
Р	T	Х				
Ø .075 (1.91)	Ø .075 (1.91)	Ø .050 (1.27)				
90°	30°					

Recommended Travel: Full Travel: Operating Temperature:		-55	.107 (2.72) .160 (4.06) °C to +105°C
Spring Force	in oz. (grams	5)	
	Order Code	Preload	Rec. Travel
Standard		1.24 (35)	3.5 (99)
Alternate	- 1	2.64 (75)	6.5 (184)
Ultra High	- 2	4.41 (125)	10.0 (283)

Mechanical

Electrical (Static Current Rating: Average Probe F Average Probe F	Resistance EPA:	5 amps <35 mOhms <50 mOhms
Materials and Fi	nishes	
Plunger EPA:	Heat-treated BeCu, Gold plated over ha	rd Nickel
Plunger SPA:	Plunger SPA: Heat-treated BeCu, Rhodium plated over h	
Barrel: Work hardened Phosphor Bronze, Gold plated over hard Nickel		
Spring:	ring: Music Wire, Silver plated	
Ball: Stainless Steel, Gold p		ld plated
Receptacle		

Hole diameter:	Ø .067 to .069 (1.70 to 1.75)
Suggested drill:	#51 or 1.70 mm
Material Housing	Nickel Silver, Gold plated
Material Post:	Phosphorous Bronze, Gold plated







13

Pylon Probe

P2664

100 mil (2.54 mm)



Mechanical

Recommended Travel:	.084 (2.13)
Full Travel:	.114 (2.90)
Operating Temperature:	-55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	2.00 (57)	3.6 (102)
Alternate	2	3.00 (85)	5.7 (162)

Electrical (Static Conditions)

Current Rating:	5 amps
Average Probe Resistance:	<10 mOhms

Materials and Finishes

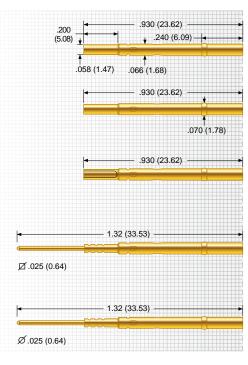
Plunger:	Hardened BeCu, Gold plated
Barrel:	Phosphorous Bronze, Gold plated
Spring:	Stainless Steel
Ball:	Stainless Steel

Probe Overall Length

Model No.	Overall Length (Dim. A)
P2664G	.895 (22.73)
P2664G-1C	.845 (21.46)
P2664G-2R	.935 (23.75)

Receptacle

Hole diameter:	Ø .069 (1.75)
Suggested drill:	1.75 mm
Material Housing	Nickel Silver, Gold plated:
Material Post:	Phosphorous Bronze, Gold plated



PR541-0 Collar height=.060 (1.52)

PR541-0F Flush Mount

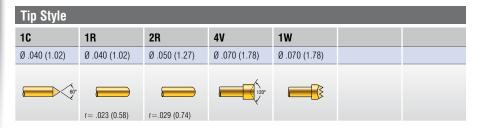
PR541-1 Collar height=.060 (1.52) PR541-1F Flush Mount

PR541-2

Collar height=.060 (1.52) **PR541-2F** Flush Mount

PR541-3

Collar height=.060 (1.52) **PR541-3F** Flush Mount



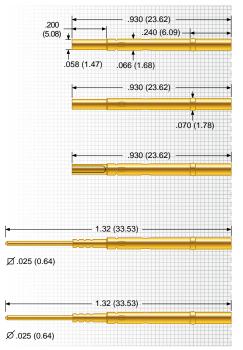


www.ectinfo.com

00



PR541-0



Tip Style						
3C	1R	1Q	2Q	1V	1W	
Ø .040 (1.02)	Ø .040 (1.02)	Ø .060 (1.52)	Ø .025 (0.64)	Ø .070 (1.78)	Ø .070 (1.78)	
				120°		
Steel	r= .023 (0.58)					

Collar height=.060 (1.52)
PR541-0F Flush Mount
PR541-1 Collar height=.060 (1.52) PR541-1F Flush Mount
PR541-2 Collar height=.060 (1.52) PR541-2F

PR541-2F Flush Mount

```
PR541-3
Collar height=.060 (1.52)
PR541-3F
Flush Mount
```

Mechanical			
Recommended Travel:		.114 (2.90)	
Full Travel:		.170 (4.32)	
Operating Tem	perature:	-55	5°C to +105°C
Spring Force in	n oz. (grams	5)	
	Order Code	Preload	Rec. Travel
Standard	1	2.70 (77)	6.9 (196)
Alternate	2	1.30 (37)	2.8 (79)
Average Probe Resistance:			<10 m0hms
Average Probe Resistance:			<10 m0hms
Materials and	Finishes		
Plunger:		d Steel or Be	Cu, Gold plated
	Hardenec	l Steel or Be rous Bronze,	
Plunger:	Hardenec	rous Bronze,	Cu, Gold platec Gold plated
Plunger: Barrel:	Hardenec Phosphor	rous Bronze, ire	
Plunger: Barrel: Spring:	Hardenec Phosphol Music W	rous Bronze, ire	
Plunger: Barrel: Spring: Ball:	Hardenec Phospho Music W Stainless	rous Bronze, ire	

 Suggested drill:
 1.75 m

 Material Housing:Nickel Silver, Gold plated
 1.75 m

 Material Post:
 Phosphorous Bronze, Gold plated

Series Series 7 Tip Style 8 Body Body

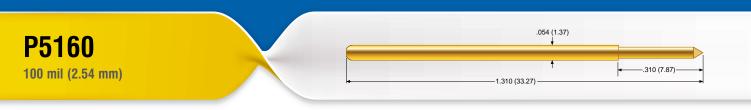
Dimensions in inches (millimeters) Specifications subject to change without notice





15

Pylon Probe



Mechanical

Recommended Travel:	.167 (4.24)
Full Travel:	.230 (5.84)
Operating Temperature:	-55°C to $+105$ °C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	2.50 (71)	6.5 (184)
Alternate	2	1.70 (48)	3.5 (99)
Elevated	3	2.50 (71)	8.2 (232)

Electrical (Static Conditions)

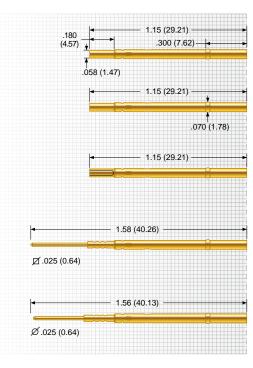
Current Rating:	8 amps
Average Probe Resistance:	<10 m0hms

Materials and Finishes

Plunger:	Hardened Steel or BeCu, Gold plated
Barrel:	Phosphorous Bronze, Gold plated
Spring:	Music Wire
Ball:	Stainless Steel

Receptacle

Hole diameter:	Ø .069 (1.75)
Suggested drill:	1.75 mm
Material Housing	Nickel Silver, Gold plated
Material Post:	Phosphorous Bronze, Gold plated



PR54-0 Collar height=.060 (1.52)

PR54-0F Flush Mount

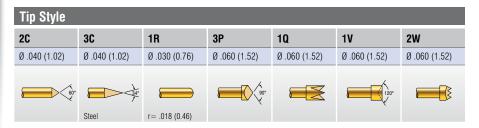
PR54-1 Collar height=.060 (1.52) PR54-1F Flush Mount

PR54-2 Collar height=.060 (1.52)

PR54-2F Flush Mount

PR54-3

Collar height=.060 (1.52) **PR54-3F** Flush Mount





www.ectinfo.com



Replaceable Probe

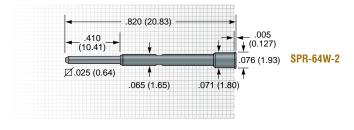
General Purpose

HPA-64 / SPA-64

100 mil (2.54 mm)







HPA / SPA Tip Style					
-1	-2	-3	-4	-7	-8
Ø .077 (1.96)	Ø .077 (1.96)	Ø .077 (1.96)	Ø .065 (1.65)	Ø .156 (3.96)	Ø.075 (1.99)
✓ → → → → → → → → → → → → → → → → → → →	0.42 (1.07) 37° +		✓ √31°		
-9	-10				
Ø .047 (1.19)	Ø .047 (1.19)				
	0				

Mechanical	
Recommended Travel:	.050 (1.27)
Full Travel:	.050 (1.27)
Operating Temperature:	-55°C to $+150°C$
Spring Force in oz. (grams)	

	Preload	Rec. Travel
Standard	1.10 (31)	3.85 (109)
Electrical (Stat Current Rating: Average Probe	,	3 amps <50 mOhms
Materials and I	Finishes	
Plunger:	Heat-treated BeCu, Gold plated over hard	Nickel
Barrel HPA:	Work hardened Nickel Gold plated over hard)
Barrel SPA:	Work hardened Nickel	Silver
Spring:	Stainless Steel, Silver	plated

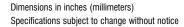
Probe Overall Length

Model No.	Overall Length (Dim. A)
HPA/SPA-64-1, -4, -7	.375 (9.53)
HPA/SPA-64-2, -3	.365 (9.27)
HPA/SPA-64-8	.385 (9.78)
SPA-64-9, -10	.363 (9.22)
HPA-64-9, -10	.365 (9.27)

Receptacle

Hole diameter:	Ø .067 to .069 (1.70 to 1.75)
Suggested drill:	#51 or 1.70 mm
Material:	Nickel Silver alloy





၀ၣ

Pylon Probe



125 mil (3.18 mm)



Mechanical

Recommended Travel:	.167 (4.24)
Full Travel:	.230 (5.84)
Operating Temperature:	-55°C to $+150$ °C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	1.50 (43)	3.0 (85)
Alternate	2	2.50 (71)	5.8 (164)

Electrical (Static Conditions)

Current Rating:	15 amps
Average Probe Resistance:	<10 mOhms

Materials and Finishes

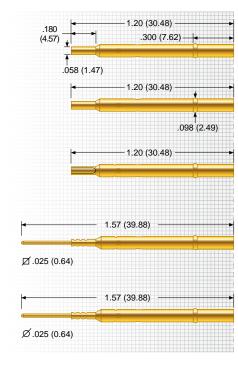
Plunger:	Hardened BeCu, Gold plated
Barrel:	Phosphorous Bronze, Gold plated
Spring:	Stainless Steel
Ball:	Stainless Steel

Probe Overall Length

Model No.	Overall Length (Dim. A)
P2665G	1.29 (32.77)
P2665G-2W	1.27 (32.26)

Receptacle

Hole diameter:	Ø .094 to .096 (2.39 to 2.44)
Suggested drill:	#41 or 2.40 mm
Material Housing:N	ickel Silver, Gold plated
Material Post: P	hosphorous Bronze, Gold plated



PR80-0 Collar height=.090 (2.29)

PR80-0F

Flush Mount

PR80-1F

Flush Mount **PR80-1** Collar height=.090 (2.29)

PR80-2F

Flush Mount **PR80-2** Collar height=.090 (2.29)

PR80-3F

Flush Mount PR80-3 Collar height=.090 (2.29)



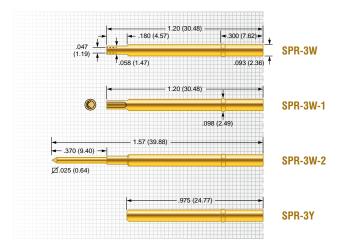
Series Series Tip Style Body Body

op





EPA-3 / SPA-3 125 mil (3.18 mm)



EPA Tip Sty	yle					
Α	В	C	D	E	F	G
Ø .100 (2.54)	Ø .050 (1.27)	Ø .050 (1.27)	Ø .062 (1.58)	Ø .100 (2.54)	Ø .100 (2.54)	Ø .050 (1.27)
	300			90°		
Н	J	L5	P5	Т		
Ø .100 (2.54)	Ø .050 (1.27)	Ø .050 (1.27)	Ø .050 (1.27)	Ø.100 (2.54)		
			90 *	30"		
SPA Tip St	yle					
SPA Tip St A	yle B	C	D	E	F	G
		C Ø .050 (1.27)	D Ø .062 (1.58)	E Ø .100 (2.54)	F Ø .100 (2.54)	G Ø .050 (1.27)
A	В				-	
A	В				-	
A Ø .100 (2.54)	B Ø.050 (1.27)	Ø .050 (1.27)			-	

Mechanical	
Recommended Travel:	.167 (4.24)
Full Travel:	.250 (6.35)
Operating Temperature • Standard Spring: • Alternate Spring: • Ultra High Spring:	-55°C to +85°C -55°C to +150°C -55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		1.56 (44)	4.5 (128)
Alternate	- 1	3.02 (86)	6.5 (184)
Ultra High SPA only	- 2	4.18 (119)	11.7 (332)

Electrical (Static Conditions)

Current Rating:		6 amps
Average Probe Resistance EPA:		<35 mOhms
Average Probe Resistance SPA:		<50 m0hms
Materials and Finishes		
Plunger EPA: Heat-treated BeCu,		
Gold plated over hard Nickel		ard Nickel
Plunger SPA:	lunger SPA: Heat-treated BeCu, Rhodium plated over hard Nickel	

Work hardened Nickel Silver,

Gold plated over hard Nickel

Spring

Barrel:

 Standard: Alternate: 	Stainless Steel, Silver plated
 Ultra High: 	Stainless Steel
Ball:	Brass, Gold plated
Receptacle	
Hole diameter:	Ø .094 to .096 (2.39 to 2.44)

DeCu. Cilver plated

Hole diameter:	Ø .094 to .096 (2.39 to 2.44)
Suggested drill:	#41 or 2.40 mm
Material Housing	:Nickel Silver,
	Gold plated over hard Nickel
Material Post:	Phosphorous Bronze, Gold plated



op



Replaceable Probe



Mechanical

Recommended Travel:	.167 (4.24)
Full Travel:	.230 (5.84)
Operating Temperature:	-55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard	1	2.00 (57)	4.0 (113)
Alternate	2	3.50 (99)	6.9 (194)

Electrical (Static Conditions)

Current Rating:	20 amps
Average Probe Resistance:	<10 mOhms

Materials and Finishes

Plunger:	Hardened BeCu, Gold or Silver plated
Barrel:	Phosphorous Bronze, Gold plated
Spring:	Stainless Steel
Ball:	Stainless Steel

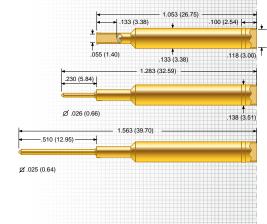
Probe Overall Length

Model No.	Overall Length (Dim. A)
P2757G	1.210 (30.73)
P2757G-2C	1.140 (28.96)
P2757G-1W	1.205 (30.61)
P2757G-2W	1.205 (30.61)

Receptacle

Hole diameter: Ø .1350 to .1365 (3.43 to 3.47) Suggested drill: #29 or 3.45 mm Material Housing: Brass, Gold plated Material Post: Phosphorous Bronze, Gold plated

op



S2757-2ED Collar height=.090 (2.29)

\$2757-2ETD

Collar height=.090 (2.29)

\$2757-2EWWD

Collar height=.090 (2.29)

Tip Style						
10	2C	1R	1V	1W	2W	3W
Ø .098 (2.49)	Ø .098 (2.49)	Ø .120 (3.05)	Ø .152 (3.86)	Ø .154 (3.91)	Ø .250 (6.35)	Ø .122 (3.10)
60°	24°		120°			



www.ectinfo.com

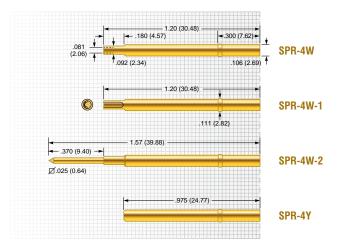


Replaceable Probe

General Purpose



EPA-4 / SPA-4 187 mil (4.75 mm)



EPA Tip Sty	/le					
Α	В	C	D	E	F	G
Ø .156 (3.96)	Ø .060 (1.53)	Ø .060 (1.53)	Ø .093 (2.36)	Ø .156 (3.96)	Ø .156 (3.96)	Ø .060 (1.53)
90°				90°		90°
Н	J	L6	P6			
Ø .156 (3.96)	Ø .060 (1.53)	Ø .060 (1.53)	Ø .060 (1.53)			
			90°			
SPA Tip Sty	/le					
SPA Tip Sty A	yle B	C	D	E	F	G
		C Ø .060 (1.53)	D Ø .093 (2.36)	E Ø .156 (3.96)	F Ø .156 (3.96)	G Ø .060 (1.53)
A	В		-			
A	В		-			
A Ø.156 (3.96)	B Ø .060 (1.53)		-			

Recommended Travel: .167 (4.24) Full Travel: .250 (6.35) Operating Temperature .55°C to +85°C	Mechanical	
Operating Temperature	Recommended Travel:	.167 (4.24)
1 5 1	Full Travel:	.250 (6.35)
 Alternate Spring: -55°C to +150°C Ultra High Spring: -55°C to +150°C 	Standard Spring:Alternate Spring:	-55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Standard		2.00 (57)	4.8 (136)
Alternate	- 1	3.07 (87)	6.9 (196)
Ultra High SPA only	- 2	6.18 (175)	11.8 (335)

Electrical (Static Conditions)

Current Rating: Average Probe F Average Probe F	7 amps <35 mOhms <50 mOhms			
Materials and Finishes				
Plunger EPA:	Plunger EPA: Heat-treated BeCu, Gold plated over hard Nickel			
Plunger SPA: Heat-treated BeCu, Rhodium plated over h				
Barrel:	Barrel: Work hardened Nickel Silver, Gold plated over hard Nickel			
Spring • Standard: BeCu, Silver plated				

 Alternate: 	Stainless Steel, Silver plated
 Ultra High: 	Stainless Steel
Ball:	Brass, Gold plated

Receptacle

Hole diameter:	Ø .107 to .109 (2.72 to 2.77)
Suggested drill:	2.75 mm
Material Housing	:Nickel Silver,
	Gold plated over hard Nickel
Material Post:	Phosphorous Bronze, Gold plated

op



www.ectinfo.com

ECI

Dimensions in inches (millimeters) Specifications subject to change without notice

21

Replaceable Probe



Mechanical

Recommended Travel:	.167 (4.24)
Full Travel:	.250 (6.35)
Operating Temperature	
 Light Spring: 	-55°C to +85°C
 Standard Spring: 	-55°C to +150°C
 Ultra High Spring: 	-55°C to +150°C

Spring Force in oz. (grams)

	Order Code	Preload	Rec. Travel
Light SPA only	- 1	1.96 (56)	3.5 (99)
Standard		6.73 (171)	16.0 (454)
Ultra High SPA only	- 2	12.90 (366)	48.0 (1360)

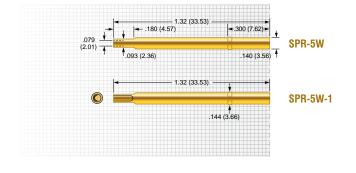
Electrical (Static Conditions)

Current Rating:	8 amps
Average Probe Resistance EPA:	<35 mOhms
Average Probe Resistance SPA:	<50 mOhms

Materials and Finishes

Plunger EPA:	Heat-treated BeCu, Gold plated over hard Nickel
Plunger SPA:	Heat-treated BeCu, Rhodium plated over hard Nickel
Barrel:	Work hardened Nickel Silver, Gold plated over hard Nickel
Spring	
Light:	BeCu, Silver plated
 Standard: 	Stainless Steel, Silver plated
 Ultra High: 	Music Wire, Silver plated
Ball:	Brass, Gold plated
Receptacle	
Hole diameter:	Ø .141 to .143 (3.58 to 3.63

Hole diameter: Ø .141 to .143 (3.58 to 3.63) Suggested drill: 3.60 mm Material Housing:Nickel Silver, Gold plated over hard Nickel



EPA Tip Sty	le				
Α	В	E	H		
Ø .156 (3.96)	Ø .080 (2.03)	Ø .156 (3.96)	Ø .156 (3.96)		
		90°			
SPA Tip Sty	/le				

A	В	Н		
Ø .156 (3.96)	Ø .080 (2.03)	Ø .156 (3.96)		
90°				
- X				



_

00

Epoxy Mount

GENERAL PURPOSE - EPOXY OR SOLDER MOUNT

The ECT / Pylon line of standard products includes non-replaceable Pogo Contacts. They differ from the replaceable contacts in that they do not require a socket or receptacle and are designed to be permanently mounted. Non-Replaceable Probes are designed for industrial applications where typical probe life meets or exceeds those of the end-use product. They are typically located inside the end product where probe replacement is either impossible or end-product damage would occur.

Electrical connections are typically made with a soldered connection for electrical and mechanical stability.

The probe is retained in the retention plate either with epoxy or solder on the outside of the probe body.

Non-replaceable Pogo Contacts are another example of ECT's and Pylon's quality and innovation and how it can work for you.

EPOXY MOUNT INSTRUCTIONS

ECT non-replaceable products may be retained in mounting holes using solder or adhesives.

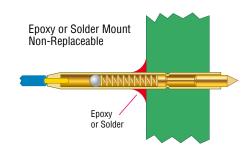
- Solder mount If conductivity is required, we recommends utilizing solder mounting for retention.
- Epoxy mount If conductivity is not required, utilizing epoxy adhesives for mounting is acceptable.

Adhesives used are typically two-part epoxies, and can be either conductive or non-conductive dependent upon the application. ECT does not recommend the use of fast setting Superglue® style adhesives as they can outgas and may put a nearly invisible barrier on contact surfaces. Epoxy mounting, when properly utilized, provides excellent holding or retention ability as compared to the traditional mounting techniques such as solder mounting.

Several types of epoxies are available for use, dependent on whether conductivity is required, desired set time, temperature of application and the requirements and temperature in the end use.

Here are some recommendations for epoxy adhesives which are known to work well in typical customer applications:

- DEVCON #14277 Two-part epoxy
- Loctite 3140 Hysol Epoxy Resin
- Loctite 3164 Hysol Epoxy Hardener
- DURALCO #4525 Room temperature curing epoxy





EPOXY MOUNTING PROCEDURE

- 1. The probe barrel must be clean and free of any coatings, paint, or other materials.
- 2. Additionally, the plated through hole, or mounting hole must be clean and free of any coatings, paint, or other materials.
- 3. To install the probe, apply a thin layer of conductive epoxy to the clean inside area of the mounting hole, or to the clean outside of the probe barrel, according to manufacturer's directions.
- 4. If desired, apply a release agent, on all other surfaces to keep the epoxy from adhering to undesirable locations. Utilize a release agent which is compatible with your process.
- 5. If the depth of the mounting hole is sh low, ensure that a fixture is used to assure perpendicularity of the probe to the mounting plane.
- 6. Once the epoxy hardens, or sets up to an acceptable stiff plastic consistency, remove any fixturing or release agents.

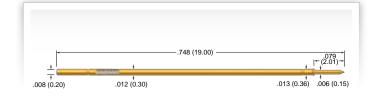






MEP-22B

20 mil (0.51 mm)



MEPJ-22BD

20 mil (0.51 mm)

⁺ .071 +(1.80)→	+	.810 (20.60)	.071 .015 (0.38) ↓ ←(1.80
.008 (0.21)	.013 (0.32)		.020 (0.50) + + + .00 (0.2

Mechanical

Recommended Travel:	.050 (1.27)
Full Travel:	.079 (2.01)
Operating Temperature:	$-35^{\circ}C$ to $+105^{\circ}C$

Spring Force in oz. (grams)

		Preload	Rec. Travel
Standard		0.51 (14)	1.5 (43)
Electrical (Static C Current Rating: Average Probe Res			2 amps <125 mOhms
Materials and Fini	shes		
Plunger:	Heat-treated	d Steel, Nickel Boron p	lated
Barrel:	BeCu alloy, Gold plated		
Spring:	Music Wire, Gold plated		
Mounting Hole diameter: Suggested drill:		Ø .013	35 to .0140 (0.34 to 0.36) #80 or 0.35 mm
Tip Style B	-	-	_

В		
Ø .006 (0.15)		



ECI

Mechanical

Recommended Travel:	.052 (1.33)
Full Travel:	.079 (2.01)
Operating Temperature:	-35°C to +105°C

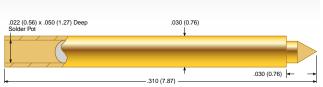
Spring Force in oz. (grams)

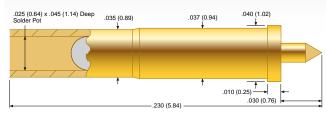
	,		
		Preload	Rec. Travel
Standard		0.38 (11)	1.7 (48)
Electrical (Static	Conditions)		
Current Rating:			2 amps
Average Probe R	lesistance:		<125 m0hms
Materials and Fi	nishes		
Plunger:	Heat-treate	d Steel, Nickel Boron p	lated
Barrel:	Phosphor E	Bronze, Gold plated	
Spring:	Music Wire	, Gold plated	
Mounting			
Hole diameter:		Ø.01	35 to .0140 (0.34 to 0.36)
Suggested drill:			#80 or 0.35 mm
Tin Chulo	_	_	_
Tip Style			
В			
Ø .008 (0.20)			

HIB & DUT

A-S







Mechanical

Recommended Travel:	.020 (0.51)
Full Travel:	.030 (0.76)
Operating Temperature:	-55°C to $+150$ °C

Spring Force in oz. (grams)

Dimensions in inches (millimeters)

Specifications subject to change without notice

		Preload	Rec. Travel
Standard		0.5 (14)	2.0 (57)
Electrical (Stat	ic Conditions)		
Current Rating:	2 amps		
Average Probe	Resistance:		<30 mOhms
Materials and F	inishes		
Plunger:	Work hard	ened BeCu, Gold plated	
Barrel:	Phosphor	Bronze, Gold plated	
Spring: Stainless Steel, Gold plated			
Ball: Stainless Steel, Gold plated			
Epoxy Mounting	y .		
Hole diameter:			Ø .0315 (0.80)
Suggested drill: #68 or 0.79			#68 or 0.79 mm
Tip Style			
C	R		
Ø .021 (0.53)	Ø.021 (0.53)		

Mechanical

Recommended Travel:	.020 (0.51)
Full Travel:	.030 (0.76)
Operating Temperature:	-55°C to +150°C

Spring Force in oz. (grams)

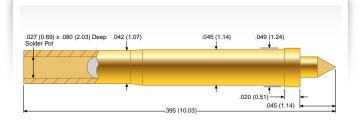
		Preload	Rec. Travel	
Standard		0.7 (20)	1.3 (37)	
Electrical (Static Conditions)Current Rating:2 anAverage Probe Resistance:< 30 mOh				
Materials and Fi	nishes			
Plunger:	Work harden	ed BeCu or Brass, Go	old plated	
Barrel:	Brass, Gold p	plated		
Spring:	Stainless Ste	el, Gold plated		
Ball:	Stainless Ste	el, Gold plated		
Mounting				
Hole diameter:			Ø .0380 (0.97)	
Suggested drill:			#62 or 0.97 mm	

Tip Style				
C	R	٧		
Ø .014 (0.36)	Ø .014 (0.36)	Ø .014 (0.36)		
60°	Brass	120°		

00



C-S 75 mil (1.91 mm)



Mechanical

Recommended Travel:	.030 (0.76)
Full Travel:	.045 (1.14)
Operating Temperature:	-55°C to +150°C

Spring Force in oz. (grams)

		Preload	Rec. Travel
Standard		0.5 (14)	3.4 (96)
Electrical (Static C	onditions)		
Current Rating:			5 amps
Average Probe Res	istance:		<30 mOhms
Materials and Finis	shes		
Plunger:	Work hardened	BeCu, Gold plated	
Barrel:	Brass, Gold plat	ed	
Spring:	Stainless Steel, Gold plated		
Ball:	Stainless Steel,	Gold plated	
Epoxy Mounting			
Hole diameter:			Ø .0465 (1.18)
Suggested drill:			#56 or 0.05 mm

Tip Style			
C	R		
Ø .026 (0.66)	Ø .026 (0.66)		



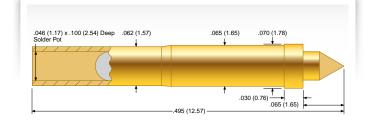
- R F





E-S

100 mil (2.54 mm)



Mechanical

Recommended Travel:	.043 (1.09)
Full Travel:	.065 (1.65)
Operating Temperature:	-55°C to +150°C

Spring Force in oz. (grams)

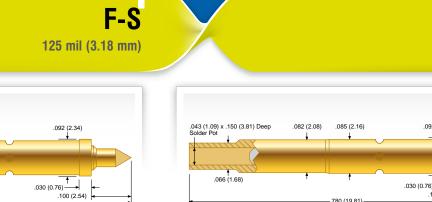
	Preload	Rec. Travel		
Standard	1.0 (29)	2.75 (78)		
Electrical (Static Conditions) Current Rating: Average Probe Resistance:				
Materials and Fi	nishes			
Plunger:	Work hardened BeCu, Gold p	plated		
Barrel:	Brass, Gold plated			
Spring:	Stainless Steel, Gold plated			
Ball:	Stainless Steel, Gold plated			
Epoxy Mounting				
Hole diameter:		Ø .0670 (1.70)		
Suggested drill:		#51 or 0.67 mm		

Tip Style				
C	F	R	V	W
Ø .045 (1.14)	Ø .045 (1.14)	Ø .045 (1.14)	Ø .090 (2.29)	Ø .070 (1.78)
			120°	

G-S

125 mil (3.18 mm)

.082 (2.08)





meenamea				
Recommended Travel:	.066 (1.68)			
Full Travel:	.100 (2.54)			
Operating Temperature:	$-55^{\circ}C$ to $+150^{\circ}C$			

.085 (2.16)

.780 (19.81)-

Spring Force in oz. (grams)

.043 (1.09) x .150 (3.81) Deep Solder Pot

.066 (1.68)

		Preload	Rec. T	ravel
Standard		2.0 (57)	6.0 (170)
Electrical (Static Conditions) Current Rating: Average Probe Resistance:				5 amps <30 m0hms
Materials and F	inishes			
Plunger:	Work hard	ened BeCu, Gold	plated or	
Barrel: Brass, Gold plated Spring: Stainless Steel, Gold plated Ball: Stainless Steel, Gold plated				
Hole diameter: Suggested drill	:			Ø .0860 (2.18) 4 or 0.086 mm
Tip Style				
C	R	W		
Ø .045 (1.14)	Ø .045 (1.14)	Ø .090 (2.29)		
6)°				

.092 (2.34) .066 (1.68) .030 (0.76) .780 (19.81)

Mechanical

Recommended Travel:	.067 (1.68)
Full Travel:	.100 (2.54)
Operating Temperature:	$-55^{\circ}C$ to $+150^{\circ}C$

Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	3.0 (85)	6.0 (170)
Electrical (Static (Current Rating:		5 amps
Average Probe Re		<30 mOhms
Materials and Fin	ishes	
Plunger:	Work hardened BeCu, Gold plated	
Barrel:	Brass, Gold plated	
Spring:	Stainless Steel, Gold plated	
Ball:	Stainless Steel, Gold plated	
Mounting		
Hole diameter:		Ø.0860 (2.18)
Suggested drill:		#44 or 0.086 mm
Tip Style	_	

ļ	Tip Style			
	F	R		
	Ø.061 (1.55)	Ø.061 (1.55)		

op

Pylon[®]



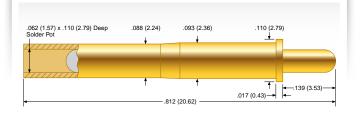
Brass

ECI

www.ectinfo.com

P2532

156 mil (3.96 mm)

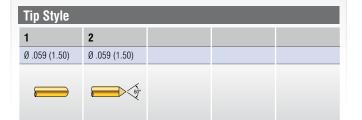


Mechanical

Recommended Travel:	.093 (2.36)
Full Travel:	.139 (3.53)
Operating Temperature:	-55°C to +150°C
opolating tempolatator	

Spring Force in oz. (grams)

		Preload	Rec. Travel
Standard		1.0 (28)	2.3 (65)
Electrical (Static (Conditions)		
Current Rating:			5 amps
Average Probe Re	sistance:		<30 mOhms
Materials and Fin	ishes		
Plunger:	Work harder	ned BeCu, Gold plated	
Barrel:	Brass, Gold	plated	
Spring:	Stainless St	eel	
Ball:	Stainless St	eel, Gold plated	
Epoxy Mounting			
Hole diameter:			Ø .0945 (2.40)
Suggested drill:			#41 mm or 2.40 mm

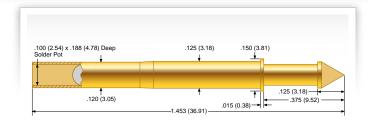




- <u>1</u> 0-8







Mechanical

P2550

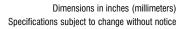
187 mil (4.75 mm)

Recommended Travel:	.167 (4.24)
Full Travel:	.250 (6.35)
Operating Temperature:	-55°C to +150°C

Spring Force in oz. (grams)

		Preload	Rec. Travel
Standard		1.20 (34)	3.10 (88)
Electrical (Static Current Rating: Average Probe F	·		5 amps < 30 mOhms
Materials and Fi	nishes		
Plunger:	Work hardene	d BeCu, Gold plated	l
Barrel:	Brass, Gold p	lated	
Spring:	Stainless Stee	el	
Ball:	Stainless Stee	el, Gold plated	
Epoxy Mounting			
Hole diameter:			Ø .126 (3.20)
Suggested drill:			#30 or 3.20 mm

Tip Style				
8	0-8	6-8	9	
Ø .156 (3.96)	Ø .122 (3.10)	Ø .154 (3.91)	Ø .125 (3.18)	
	60*			



General Purpose – Press Ring Mount

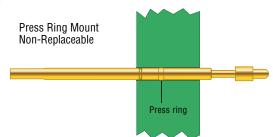
The ECT / Pylon line of standard products include non-replaceable Pogo Contacts. They differ from the replaceable contacts in that they do not require a socket or receptacle and are designed to be permanently mounted. Non-Replaceable Probes are those designed for industrial applications where typical probe life meets or exceeds those of the end-use product. They are typically located inside the end product where probe replacement is either impossible or end-product damage would occur.

Electrical connections are typically made by crimping or soldering a wire at the terminal of the probe.

The probe is retained in the retention plate by its provided press ring, which will deform during the installation process and therefore provides a permanent mount.

Non-replaceable Pogo Contacts are another example of ECT's and Pylon's quality and innovation and how it can work for you.

Press Ring Mount





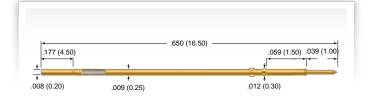




Non-Replaceable Probe - Press Ring Mount

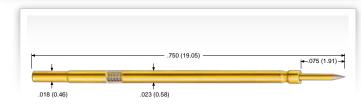
MEPJ-21

18 mil (0.45 mm)



MEP-20

25 mil (0.635 mm)



Mechanical

Recommended Travel:	.026 (0.67)
Full Travel:	.039 (1.00)
Operating Temperature:	-55°C to +105°C

Spring Force in oz. (grams)

		Preload	Rec. Travel
Standard		.18 (5)	.53 (15)
Electrical (Static C	Conditions)		
Current Rating:			2 amps
Average Probe Res	sistance:		<150 mOhms
Materials and Fini	shes		
Plunger:	Heat-treated Steel, Gold plated		
Barrel:	Phosphor Bronze, Gold plated		
Spring:	Music Wire, Gold plated		
Mounting			
Hole diameter:			Ø .0102 to .0106 (0.26 to 0.27)
Suggested drill:	.0102 or 0.26 mm		
Termination			
Crimp connection	for 35 AWG or 0.0	016 mm ²	



30

Tip Style
В
Ø .006 (0.15)
30°
- F

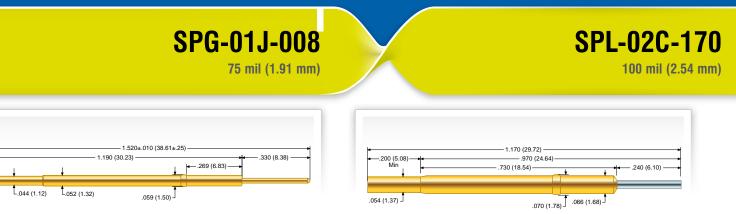
Mechanical

Recommended Travel:	.050 (1.27)
Full Travel:	.075 (1.91)
Operating Temperature:	-55°C to +105°C

Spring Force in oz. (grams)

		Preload	Rec. Travel	
Standard		.39 (11)	1.39 (39)	
Electrical (Static C	conditions)			
Current Rating:			2 amps	
Average Probe Res	sistance:		<50 m0hms	
Materials and Fini	shes			
Plunger:	Heat-treated B	eCu, Gold plated o	ver hard Nickel	
Barrel:	Work hardened	d BeCu,		
	Gold plated ov	ver hard Nickel		
Spring:	Music Wire, S	ilver plated		
Mounting				
Hole diameter:		Ø.0	205 to .0215 (0.52 to 0.55	
Suggested drill:	#77 or 0.52 m			
Minimum mounting plate thickness			.250 (6.35	
Order versions				
MEP-20x	Crimp			
MEP-20x-30	Crimp with 30	inches of 30 AWG	wire attached	
Application				
1. The MEP-20 ca on centers less		l in a staggered pat	ttern to access test pads	
2. Recommended	wire gauge 30 AV	VG, maximum insu	lation dia019 (0.48).	
	recommended fo ectrical shorting.	r use on alternating	g receptacles to reduce the	
Tip Style		_		
-				

TIP OLYIC				
В	G	J	U	
Ø .010 (0.25)	Ø .010 (0.25)	Ø .010 (0.25)	Ø .006 (0.15)	
	20°			



Mechanical

Recommended Travel:	.167 (4.24)
Full Travel:	.250 (6.35)
Operating Temperature:	-55°C to +105°C

Spring Force in oz. (grams)

		Preload	Rec. Travel
Standard		0.94 (27)	2.0 (57)
Electrical (Static Co	onditions)		
Current Rating:			6 amps
Average Probe Resi	stance:		<10 m0hms
Materials and Finis	hes		
Plunger:	Heat-treated to	ool Steel, Gold pla	ted over hard Nickel
Barrel:	Work hardened Phosphor Bronze,		
	Gold plated (I.	D. and O.D.) over	hard Nickel
Spring:	Music Wire		
Ball:	Stainless Stee	1	
Epoxy Mounting			
Hole diameter:		Ø	.053 to. 055 (1.35 to 1.40)
Suggested drill:			#54 or 1.35 mm

Mechanical

Recommended Travel:	.107 (2.72)
Operating Temperature:	-55° C to $+150^{\circ}$ C

Spring Force in oz. (grams)

		Preload	Rec. Travel
Standard		1.68 (48)	3.75 (106)
Electrical (Static Current Rating: Average Probe R			5 amps <35 mOhms
Materials and Fi	nishes		
Plunger:	BeCu, Rhodium p	lated	
Barrel:	Nickel Silver, Gold	d plated	
Spring:	Music Wire, Silve	Music Wire, Silver plated	
Ball:	Stainless Steel		
Mounting			
Hole diameter:			Ø .067 to .069 (1.70 to 1.75)
Suggested drill:			#51 or 1.75 mm





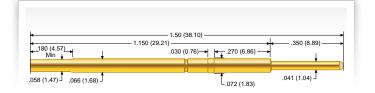
op

SPL-25J-289

100 mil (2.54 mm)

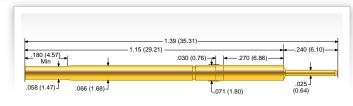
Mechanical

Recommended Travel:



SPL-25J-392

100 mil (2.54 mm) / 125 mil (3.18 mm)



.167 (4.24) .350 (8.89) -55°C to +105°C	Mechanical Recommended Full Travel: Operating Tempo				3 (5.92)) (6.10) +105°C
	Spring Force in (oz. (grams)			
Rec. Travel			Preload	Rec. Travel	
1.16 (3)	Standard		0.28 (7.94)	2.5 (71)	
	Electrical (Statio	c Conditions)			
5 amps	Current Rating:				5 amps
<35 m0hms	Average Probe Resistance: <35 mOhms			mOhms	
	Materials and Fi	nishes			
	Plunger: BeCu, Gold plated hardened				
	Barrel:	BeCu, Gold pla	ated		
	Spring:	Music Wire, Si	lver plated		
	Ball:	Stainless Steel			
	Mounting				
7 to .069 (1.70 to 1.75)	Hole diameter:			Ø .067 to .069 (1.70	to 1.75)
22-26 AWG	Recommended	wire gauge:		22-2	26 AWG
#51 or 1.75 mm	Suggested drill:			#51 or 1	.75 mm

Full Travel: Operating Temper	ature:		.350 (8.89) -55°C to +105°C
Spring Force in oz	. (grams)		
	Prelo	oad	Rec. Travel
Standard	0.25	(7)	1.16 (3)
Electrical (Static (Current Rating: Average Probe Re Materials and Fini Plunger: Barrel: Spring: Ball:	sistance:	ted	5 amps <35 mOhms
Mounting Hole diameter: Recommended wi Suggested drill:	re gauge:		Ø .067 to .069 (1.70 to 1.75) 22-26 AWG #51 or 1.75 mm

SPL - 25 J-289 SPL 25 J-392

www.ectinfo.com

How to Order

Order Code Example

ECT

 Series 	Probe Model number	
• Size	Probe Size (1-2 digit number)	
 Tip Style 	Tip style (typical a letter)	
Spring Force	Spring Force indicated in oz. or sometimes with an order con number indicating standard to ultra-high spring forces.	
• Special	 S Offered on some probes for steel base material SL Offered on the POGO-25135 Probe for a steel base ma and a 2mm longer shaft P indicates the optional anti walkout feature. The probe includes a so called Pylon or Banana Bend 	



Pylon

• Body

 Series Probe Model number Plating Gold Plated Plunger G • Tip Style Tip style (typical a number and a letter) Spring Force Standard 1 2 Alternate 3 Elevated Pylon Bend Body S Straight Body



Semiconductor Probe - CSP and BTM

 Series 	Probe Model number	
• DUT Tip Style	Tip style letter	
DUT Material	Plunger base material C BeCu S Steel	
 HIB Tip Style 	Tip style letter	
HIB Material	Plunger base material C BeCu S Steel	
• Special	PG1 Primeguard1 plating PG2 Primeguard2 plating	



Semiconductor Probe - ZIP and SCP

Series	Probe Model number
--------	--------------------

- Size Pitch
- DUT Tip Style Tip style letter
- DUT Material Plunger base material (ZIP only) Steel S
 - Н Hypercore
- HIB Tip Style Tip style letter



ECT Worldwide



www.ectinfo.com

WORLDWIDE OFFICES

America

- (1) Everett Charles Technologies Inc. 700 East Harrison Avenue Pomona, CA 91767 United States of America Phone: +1 909-625-5551 E-mail: ECTinfo@ectinfo.com
- (2) ECT Ostby Barton -Pylon 487 Jefferson Blvd. Warwick, RI 02886 United States of America Phone: +1 401-739-7310 E-mail: ECTinfo@ectinfo.com

Asia

(3) Everett Charles Technologies Inc. Block 161, Kallang Way #06-18/26 Singapore 347249 Singapore Phone: +65 6293-8966 E-mail: Ect.Singapore@ectinfo.com

Europe

(4) atg Luther & Maelzer GmbH Zum Schlag 3 97877 Wertheim Germany Phone: +49 9342-291-0 E-mail: ectinfo@atg-LM.com

VERETT CHARLES TECHNOLOGIES

Contact Solutions

- Pomona
- Warwick
- Wertheim
- · Singapore
- Yokohama

Americas

Brazil Canada Mexico United States of America

Asia

China Hong Kong Japan Korea Malaysia Philippines Singapore Taiwan Thailand Australia

Middle East Israel Africa

South Africa Tunisia



Fixtures

- Clifton Park
- Colorado Springs
- Hungary
- Singapore
- Shenzhen

Europe

Austria Belarus Belgium Bulgaria Croatia **Czech Republic** Denmark Estonia Finland France Germany

Hungary Ireland Israel Italy Lithuania Luxembourg Montenegro Netherlands Poland Portugal

Your ECT Contact is:



Romania Serbia Slovakia Slovenia Spain Sweden Switzerland Turkey Ukraine



- Shenzhen

 - United Kingdom

©2013 Everett Charles Technologies. Design by www.agentur-zapf.com

Pogo is a registered trademark of Everett Charles Technologies; Patents D422,230, D395,016 and other Patents Pending. Lit. #1521-11-00 All information contained in this document is furnished for the sole purpose of identifying and suggesting the nature of the product and does not warrant the nature or quality of the product. Edition ECT-PC 11/2013