



Locating Pins For Height Adjusting

Feature: Locating pins for printed circuit boards. B dimension is fixed short for thin boards. Reasonably priced.

Locating Pins – For Height Adjusting

RoHS10

* An insertion guide will only be machined on p6 & m6 toleranced components.
⊖ When the P dimension is small, a centering hole will cause the sphere section to become smaller and more noticeable.

Material No.	Material	Surface Treatment	Hardness	Large Head		Small Head	
				Standard	Threaded	Standard	Tapped
(1)	304 Stainless Steel Equivalent	—	—	SFPLA m6 SFPLP p6	SFPLN	SFPMA m6 SFPMP p6	SFPMT
(2)	440C or 420 Stainless Steel	—	Treated Hardness: 50–55 HRC min.	CFPLA m6 CFPLP p6	CFPLN	CFPMA m6 CFPMP p6	CFPMT

Large Head Standard

Small Head Standard

Large Head Threaded

Small Head Tapped

When D(P)≥3
a=1.0
d=D(P)-0.2
When D(P)<3
a=0.5
d=D(P)-0.1
⊖ Relief dimension is reference value.

Large Head Standard

Part Number	D	D Tolerance		P	L	B	C	ℓ ₁
		m6	p6					
SFPLA m6	1	+0.008	+0.012	1.50–2.00	2–10	1	0.1	0
SFPLP p6	2	+0.002	+0.006	2.50–4.00	2–15	—	—	—
CFPLA m6	3	—	—	3.50–6.00	3–15	2	0.2	1

Large Head Threaded

Part Number	D	D Tolerance	P	L	B	M
SFPLN	2	-0.002	2.50–4.00	0–12	1	M2
CFPLN	3	-0.008	3.50–6.00	—	2	M3

⊖ For full thread, specify L = 0 and alteration NNC.

Small Head Standard

Part Number	D	D Tolerance		P	L	B	C	ℓ ₁
		m6	p6					
SFPMA m6	2	+0.008	+0.012	1.00–1.95	2–15	1	0.3	0
SFPMP p6	3	+0.002	+0.006	1.50–2.95	3–15	—	—	—
CFPMA m6	4	+0.012	+0.020	2.50–4.00	3–20	2	1	1
CFPMP p6	6	+0.004	+0.012	—	—	—	—	—

Small Head Tapped

Part Number	D	D Dimension Tolerance	P	L	B	C	M	ℓ ₂
SFPMT	5	-0.004	2.50–4.00	10–20	2	0.5	M2	3
CFPMT	6	-0.012	—	—	—	—	M3	5

Part Number Example

Part Number: P - L

Type: D

SFPLN 2 - P2.90 - L8

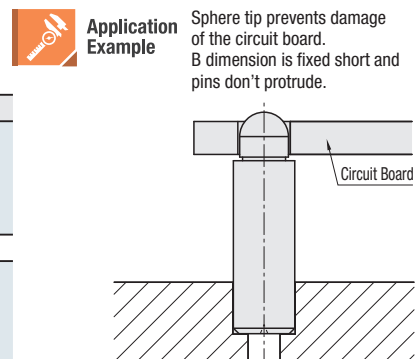
CFPLA 6 - P3.95 - L15

Part Number Alterations

Part Number: P - L - (RC)

SFPMT5 - P2.95 - L10 - RC

Alteration	Underhead Fillet	Radius
	Code	NNC
Spec.	Ordering Code: NNC - Applicable when L=0 - Large head male screw. Only applicable	Ordering Code: RC - Applicable when P-D≥2.



Locating Pins

Small Diameter, Selectable Tip

Feature: Locating pins with O3 or less pin diameter. Selectable from four types of tip shape.

Locating Pins – Small Diameter, Selectable Tip

RoHS10

L Selectable			L Configurable				L Configurable and Tolerance Selectable Type				Materials	Hardness	Tip Shape Selection	
Flat	Sphere	Tapered	Flat	Sphere	Taper R	Tapered	Flat	Sphere	Taper R	Tapered			Flat	Taper R
SFKT	SPKT	SXKT	SFST	SPST	STST	SXST	SFFPT	SPPT	STPT	SXFPT	W1-9 Tool Steel Equivalent	Treated Hardness: 50–58 HRC min.		
SFKS	SPKS	SXKS	SFSS	SPSS	STSS	SXSS	SFPS	SPPS	STPS	SXFPS	304 Stainless Steel Equivalent	—		
—	—	—	SFSXC	SPSXC	STSC	SXSC	SFPXC	SPPXC	STPXC	SXFPXC	440C or 420 Stainless Steel	Treated Hardness: 50–55 HRC min.		
—	—	—	SPSSG	—	—	—	—	—	—	—	304 Stainless Steel Equivalent (SR Parts Polished)	—		
—	—	—	SPSDG	—	—	—	—	—	—	—	H13 Tool Steel (SR Parts Polished)	Treated Hardness: 40–52 HRC min.		

⊖ Features of W1-9 Tool Steel P.1617

Tip Shapes: Select from the diagram on the right.

L Selectable

Part Number	D	D Dimension Tolerance	L Selection						E
			3	4	5	6	10		
Flat	1	0	3	4	5	6	10	0.5	
Spherical	1.5	-0.005	5	6	8	—	—	—	
Tapered	2	—	5	6	8	10	12	15	
SFKT	3	—	5	6	8	10	12	15	

L Configurable

Part Number	D	D Dimension Tolerance	L	E	R
Flat	1.0–2.0	0	3.0–30.0	0.5–2.5	0.2
Spherical	2.1–3.0	-0.005	—	—	0.4

⊖ For Taper R, L-1≥(Dx1.85)-(Rx2.75) ⊖ For Tapered Type, L≥E+1 D≥E

L Configurable & Tolerance Selectable Type

Type	Part Number	D Tolerance	D	L	E	R
Flat	SFFPT	P ±0.005	0.50–1.00	3.0–30.0	—	—
Spherical	SPPT	Q ±0.002	1.01–2.00	—	0.2	—
Taper R	STPT	R 0	2.01–3.00	3.0–30.0	—	—
Tapered	SXFPT	H -0.01	—	—	0.4	—

⊖ For Taper R, L-1≥(Dx1.85)-(Rx2.75) ⊖ For Tapered Type, L≥E+1 D≥E

L Selectable Type

D	Flat Type		Sphere		Tapered Type	
	SFKT	SFKS	SPKT	SPKS	SXKT	SXKS
1	•	•	•	•	•	•
1.5	•	•	•	•	•	•
2	•	•	•	•	•	•
3	•	•	•	•	•	•

L Configurable

D	Flat Type		Sphere		Taper R Type		Tapered Type							
	SFST	SFSS	SFSXC	SPST	SPSS	SPSXC	SPSSG	SPSDG	STST	STSS	STSC	SXST	SXSS	SXSC
1.0–2.0	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2.1–3.0	•	•	•	•	•	•	•	•	•	•	•	•	•	•

L Configurable & Tolerance Selectable Type

D	Flat Type		Sphere		Taper R Type		Tapered Type					
	SFFPT	SFPS	SFPXC	SPPT	SPPS	SPPXC	STPT	STPS	STPXC	SXFPT	SXFPS	SXFPXC
0.50–1.00	•	•	•	•	•	•	•	•	•	•	•	•
1.01–2.00	•	•	•	•	•	•	•	•	•	•	•	•
2.01–3.00	•	•	•	•	•	•	•	•	•	•	•	•

Part Number Example

Part Number: D - L

SPKS - D1 - L5

L Configurable

Part Number: D - L - E

SPST - D1.5 - L8.5 (Sphere)

SXST - D1.5 - L5.0 - E1.0 (Taper)

L Configurable & Tolerance Selectable Type

Part Number: D - L - E

Type: D Tolerance

SPPT P - D0.55 - L5.0 (Sphere)

SXFPT P - D2.82 - L5.0 - E2.5 (Taper)

Part Number Alterations

Part Number: D - L - E - (GDC / CC)

SFST - D2.0 - L10 - CC

Alterations	Insertion Guide	C Chamfered Size
Code	GDC	CC
Spec.	Adds Insertion Guide. Ordering Code: GDC Insertion Guide Part D -0.01 -0.03	D dimension C chamfering 0.1 is changed to 0.3. Ordering Code: CC C0.3
	⊖ Machines one side only for Flat Type. ⊖ Applicable when D≥2.1 and L≥5.0 for L Configurable Type. ⊖ Applicable when D≥2.01 and L≥5.0 for L Configurable and Tolerance Selectable Type.	⊖ D≥1.5 is applicable to L Configurable Type. ⊖ D≥1.50 is applicable to L Configurable and Tolerance Selectable Type.