

Locating Pins for Height Adjusting

Locating Pins - Large Head, Tapered Nonmagnetic

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

■ **Features:** Nonmagnetic (Aluminum) Locating Pins. Does not magnetically affect the surroundings.

Material No.	Material	Surface Treatment	Hardness	Large Head		Small Head	
				Press Fit	Threaded	Press Fit	Tapped
①	SUS304	-	-	SFPLA (m6) SFPLP (p6)	SFPLN	SFPMA (m6) SFPMP (p6)	SFPMT
②	SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CFPLA (m6) CFPLP (p6)	CFPLN	CFPMA (m6) CFPMP (p6)	-

• **Large Head Press Fit**

• **Small Head Press Fit**

• **Large Head Threaded**

• **Small Head Tapped**

RoHS 10

* The insertion guide is applicable to tolerance m6 and p6 type only.
 * When the P dimension is small, a centering hole will cause the sphere section to become small.
 * SUS304 may not be polished and may have no centering hole.
 * The spherical head may be polished.

Material	Surface Treatment	Tip Shape	Type		
			Press Fit	Tapped	Threaded
A2017	Clear Anodize	Round Diamond	AFPMA AFPMD	AFPMTA AFPMTD	AFPMA AFPMD

• **Press Fit**

• **Threaded**

• **Tapped**

(Round) (Diamond)

Threads are prone to be crushed due to the soft material. Refer to the recommended tightening torque in the table for mounting.

Relief dimension is a reference value.

■ **Large Head Press Fit**

Part Number	Type	D	D dim. Tolerance		P	L	B	C	ℓ ₁	Unit Price	
			m6	p6						① SUS304	② SUS440C
SFPLA (m6) SFPLP (p6) CFPLA (m6) CFPLP (p6)	1	1			1.50-2.00	2-10	1	0.1	0	SFPLA SFPLP	CFPLA CFPLP
	2	2	+0.008	+0.012	2.50-4.00	2-15	1	0.2	0		
	3	3	+0.002	+0.006	3.50-6.00	3-15	2		1		

■ **Large Head Threaded**

Part Number	Type	D	D dim. Tolerance		P	L	B	M	Tightening Torque	Unit Price	
			g6	g6						N-cm	① SUS304
SFPLN CFPLN	2	2	-0.002	-0.008	2.50-4.00	2-12	1	M2	-		
	3	3			3.50-6.00		2	M3	147		

■ **Small Head Press Fit**

Part Number	Type	D	D dim. Tolerance		P	L	B	C	ℓ ₁	Unit Price	
			m6	p6						① SUS304	② SUS440C
SFPMA (m6) SFPMP (p6) CFPMA (m6) CFPMP (p6)	2	2	+0.008	+0.012	1.00-1.95	2-15	1	0.3	0		
	3	3	+0.002	+0.006	1.50-2.95	3-15	1	0.5			
	4	4									
	5	5	+0.012	+0.020	2.50-4.00	3-20	2	1	1		
	6	6	+0.004	+0.012							

■ **Small Head Tapped**

Part Number	Type	D	D dim. Tolerance		P	L	B	C	M	Tightening Torque	ℓ ₂	Unit Price	
			g6	g6								N-cm	① SUS304
SFPMT	5	5	-0.004	-0.012	2.50-4.00	10-20	2	0.5	M2	-	3		
	6	6							M3	147	5		

* Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data for P. 2297 (10.9). Not applicable when using locking materials or lock washers.

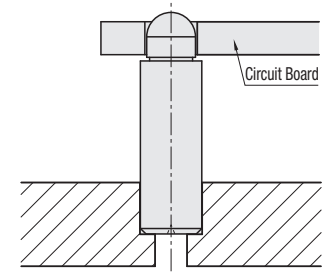
Ordering Example: Part Number - P - L
 Type D - P2.90 - L8
 SFPLN 2 - P2.90 - L8
 CFPMA 6 - P3.95 - L15

Alterations Example: Part Number - P - L - (RC)
 SFPMT5 - P2.95 - L10 - RC

Example: The tip is made spherical to prevent PCB damage, and the B dim. is kept short to prevent from going through.

Alteration	Stem R Alteration
Code	RC
Spec.	Changes the relief to R0.5. Ordering Code: RC

Applicable when D-P ≥ 2.



■ **Press Fit**

Part Number	Type	D	D dim. Tolerance	P	L	B	C	m	(W)	ℓ	Unit Price	
											0.01mm Increment	1mm Increment
AFPMA AFPMD	1	1		1.50-2.50	2-3	1.0-5.0	0.1	0.5	-	0		
	2	2	+0.008	2.50-4.00	2-6	1.0-10.0	0.5	1	1.2			
	3	3	+0.002	3.50-6.00	3-6	1.0-10.0		2	1.5			
	4	4		4.50-7.00	4-8	1.0-10.0			1.8			
	5	5	+0.012	5.50-8.00	5-10	1.0-10.0			2.2			
	6	6	+0.004	6.50-10.00	6-12	1.0-12.0			3			
	8	8	+0.015	9.00-13.00	8-16	1.0-15.0			3.5			
	10	10	+0.006	11.00-15.00	10-20	3.0-20.0			4			
	12	12		13.00-16.00	12-24	3.0-20.0			5			
	13	13	+0.018	14.00-18.00	13-26	5.0-20.0			5.5			
	16	16	+0.007	17.00-25.00	16-32	5.0-20.0			7			

■ **Tapped**

Part Number	Type	D	D dim. Tolerance	P	L	B	m	(W)	ℓ	M	Recommended Tightening Torque	Unit Price	
												0.01mm Increment	1mm Increment
AFPMTA AFPMTD	6	6	-0.004	6.50-10.00	6(9)-12	2.0-12.0	3	3	5	M3	6.25		
	8	8	-0.005	9.00-13.00	8(12)-16	2.0-15.0		3.5					
	10	10	-0.014	11.00-15.00	10(12)-20	3.0-20.0	4	4	8	M5	10		
	12	12	-0.006	13.00-16.00	12-24	3.0-20.0		5					
	13	13	-0.017	14.00-18.00	13(14)-26	5.0-20.0		5.5	10				
	16	16	-0.017	17.00-25.00	16-32	5.0-20.0	5	7	12	M8	22.5		

■ **Threaded**

Part Number	Type	D	D dim. Tolerance	P	L	B	m	(W)	M	Recommended Tightening Torque	Unit Price	
											0.01mm Increment	1mm Increment
AFPMA AFPMD	3	3	-0.002	3.50-6.00	2-6	1.0-10.0	2	1.5	3	5		
	4	4	-0.004	4.50-7.00	2-8	1.0-10.0		1.8	4	7		
	5	5	-0.004	5.50-8.00	3-10	1.0-10.0	3	2.2	5	8.75		
	6	6	-0.012	6.50-10.00	3-10	1.0-12.0		3	6	17.5		
	8	8	-0.005	9.00-13.00	5-10	1.0-15.0		3.5	8	18.75		
	10	10	-0.014	11.00-15.00	5-15	3.0-20.0	4	4	10	27.5		
	12	12	-0.006	13.00-18.00	8-15	3.0-20.0		5	12	92.5		
	16	16	-0.017	17.00-25.00	8-20	5.0-20.0	5	7	16	100		

Ordering Example: Part Number - P - L - B
 AFPMA6 - P8.50 - L6 - B3.0

Alterations Example: Part Number - P - L - B - (MH, RC, AC)
 AFPMTA10 - P12.00 - L15 - B6.0 - AC

Alterations	Tapping	Stem R Alteration	Air Vent
Code	MH	RC	AC
Spec.	Adds a tapped hole. Ordering Code: MH	Changes the relief to R0.5. Ordering Code: RC	Adds an air vent. Ordering Code: AC

Applicable when D ≥ 6, B ≥ ℓ₂ + 4
 Not applicable to Tapped.
 Applicable when P-D ≥ 2
 Not applicable to Threaded.

