SMT CAPTIVE SCREW

- Designed for hand operation.
- Fast positioning device that does not require extra tools.
- Color management for plastic material is available.
- Plastic knob can isolate ambient heat source and static.

29 SERIES SMT Captive Screw Ø18mm Patented.



Material and Finish

Knob:
6000 Series Aluminum, Plastic.

Screw:

Carbon Steel, Zinc Finish.

Spring:

300 Series Stainless Steel, Natural Finish.

Ferrule:

Carbon Steel, Tin Finish.

REEL



Recess Style











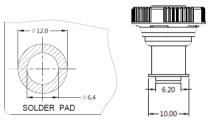




Knob High and Screw Projection

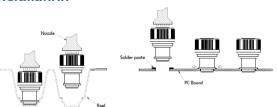
FASTENED

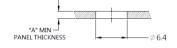
Installation Style



Inetallation

UNFASTENED





PANEL PREPARATION

Knob Color Options











■ Dimensions(mm)

	OUTER	PANEL		SCREW		KNO	OB
THREAD	DIMEN	SIONS	F	PROJECTIO	N	HEIG	GHT
	A MIN	A MAX	Т	P-1	P-2	H-1	H-2
M3.5	1.6	-	16.5	0	4.1	17.3	12.4
#6-32	1.6	-	16.5	0	4.1	17.3	12.4
M3	1.6	-	16.5	0	4.1	17.3	12.4

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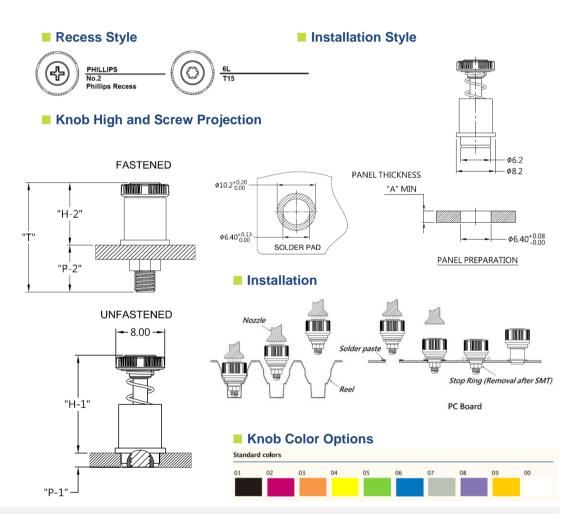
SMT Series

- Material of plastic knob can sustain high temperature on SMT process.
- Production follows standard SMT process.
- Color management is available as required by customers.
- Functional device which prevents thread damage caused by inflow of tin in SMT process.

19 SERIES SMT Captive Screw Ø8mm Patented.



Material and Finish Knob: Plastic Screw: Hardened Carbon Steel, Zinc Finish. Spring: 300 Series Stainless Steel, Natural Finish. Ferrule: Carbon Steel, Tin Finish.



Dimensions

THREAD	OUTER DIMENS		PF	SCREW			NOB IGHT
mens	A MIN	A MAX	Т	P-1	P-2	H-1	H-2
M3.5	2.4	-	18.4	2.3	7.9	16.1	10.5
#6-32	1.0	-	14	0.6	4.3	13.4	9.7

- SMT soldering process improves product reliability
- Automated manufacturing production provides stability and maximizes productivity
- Material of plastic knob can sustain high temperature on SMT process
- Color management is available as required by customers

SMT Captive Screw- Cloud Type Patented.



Material and Finish

Knob:

6000 Series Aluminum, Plastic

Screw:

Carbon Steel, Zinc Finish

Spring:

300 Series Stainless Steel, Natural Finish

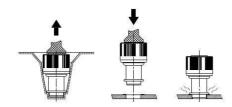
Ferrule:

Carbon Steel, Tin Finish

Reel



Installation

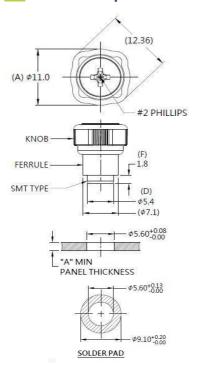




Color Options



Panel Preparation



Dimensions (mm)

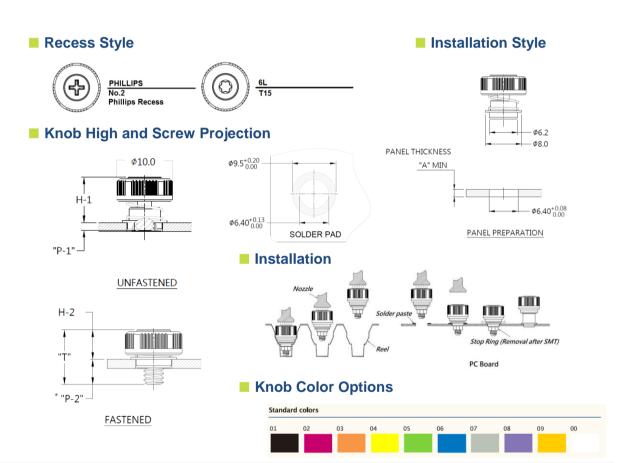
SCREW LENGTH	SCREW PF	ROJECTION	PANEL TH	HICKNESS	DIMEN	ISINOS
"T"	"P-1"	"P-2"	"A" MIN	"A" MAX	n L n	" B "
12.6	1.3	5.0	1.9	~		

- Material of plastic knob can sustain high temperature on SMT process.
- Production follows standard SMT process.
- Color management is available as required by customers.
- Functional device which prevents thread damage caused by inflow of tin in SMT process.

19 SERIES Low Profile SMT Captive Screw Ø10mm patented.







Dimensions

THREAD	OUTER DIMENS		PF	SCREW			NOB IGHT
TINEAD	A MIN	A MAX	Т	P-1	P-2	H-1	H-2
#6-32	1.6	-	9.6	1.4	4.2	8.2	5.4
M3	0.8	-	9.0	1.2	4.0	7.8	5.0



SMT Series

- Material of plastic knob can sustain high temperature on SMT process.
- Production follows standard SMT process.
- Color management is available as required by customers.
- Functional device which prevents thread damage caused by inflow of tin in SMT process.

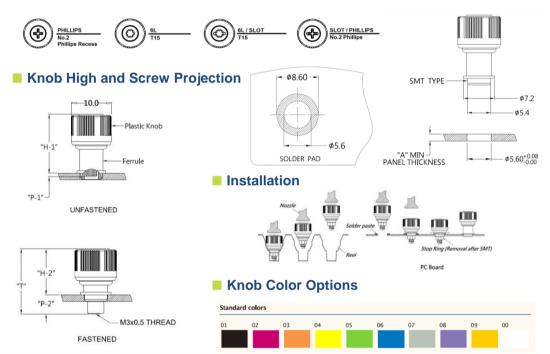
29 SERIES SMT Captive Screw Ø10mm patented.





■ Recess Style

Installation Style



Dimensions

THREAD	OUTER DIMENS		PF	SCREW			NOB IGHT
	A MIN	A MAX	Т	P-1	P-2	H-1	H-2
M3	1.6	-	15.6	0.9	4.6	14.7	11.0
#6-32	1.6	-	15.6	0.9	4.6	14.7	11.0

Captive Fastener

- Innovative lock-pin design, structure a new style of quarter turn Captive Fastener
- 1/4 quarter turn to lock/unlock two panels, quick release structure
- Energy saving, time efficiency, production cost down.
- Plastic knob or Metal Knob is available.
- Plastic knob color management is available.

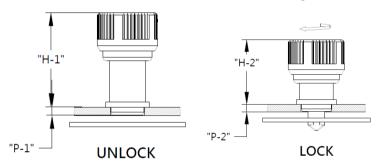
1/4 Quarter Turn / 96 SERIES Captive Fastener-SMT type Ø11.5mm Patented.



Material and Finish Knob: Plastic. Screw: Carbon Steel, Zinc Finish. Spring: 300 Series Stainless Steel, Natural Finish. Ferrule: Carbon Steel, Tin Finish. Buckle:

■ Knob High and Screw Projection

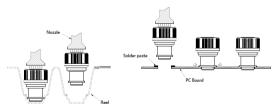
Rotate 90 degrees to lock



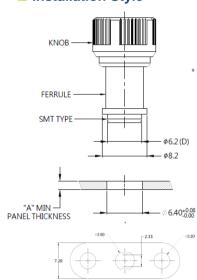
Knob Color Options



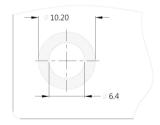
Installation



Installation Style



PANEL PREPARATION



■ Dimensions(mm)

OUTER DIMEN:		SCRE PROJEC		١	KNOB HEIGHT		
A MIN	A MAX	Т	P-1	P-2	H-1	H-2	
1.6	-	18.9	0.8	5.8	17.8 REF	13.1 REF	

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- SMT full automatic reflux welding process can increase production stability and production efficiency
- Welding for reinstallation can increase product reliability
- Reduce a damage risk of circuit caused during assembling
- Production follows standard SMT process
- Functional device which prevents thread damage caused by inflow of tin in SMT process



Material and Finish

6000 Series aluminum, plastic ABS+PC

Screw:

400 Series stainless steel, passivated.

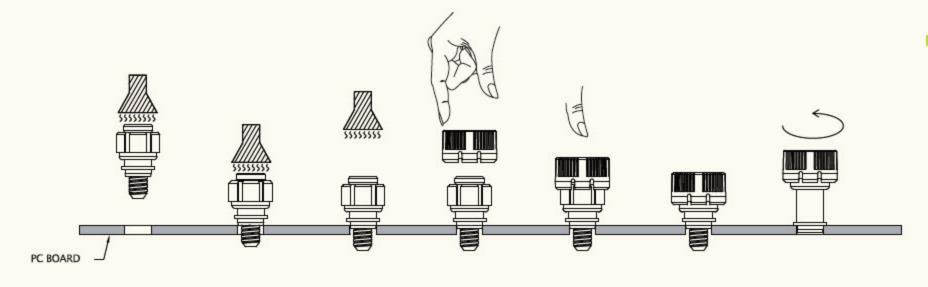
300 Series stainless steel.

Ferrule:

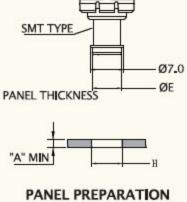
Hardened carbon steel, tin finish.







Installation Style



Recess Style







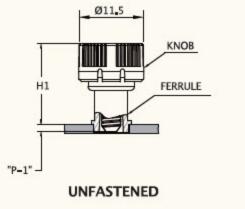


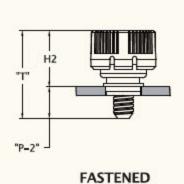


Thread Size	
М3	0
	V.

Thread Size	ØE	Ø"H"HOLE SIZE IN SHEET	Ø"D"MIN SOLDER PAD
М3	ØF F	5.7 ^{+.08} ₀ (.224 ^{+.003} ₀₀₀)	7.8(307)
#4-40	د.ده	3.7 _0 (.224000)	7.0(.307)
M3.5	ac 2	6.4 ^{+.08} ₀ (.252 ^{+.003} ₀₀₀)	0.0/354)
	Ø6.2	6.4 _0 (252-000)	9.0(.354)

Knob Height and Screw Projection

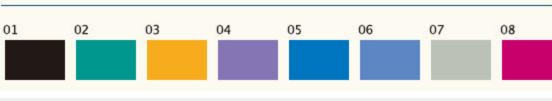






Knob	Color	Options	

Standard colors



Dimensions

21–150–138–() –– 01~08 (color number.) mm

T1		R PANEL NSIONS		SCREV DJECT		KN HEI	OB	TOTAL	PART NUMBER						
Thread		A MAX		P=1		H - 1	H - 2	FLOAT	S l ot Recess	Phil l ips Recess	6L Recess	6L/Slot Recess	Slot/Phillips Recess		
М3	1.6		13.8	1.2	4.7	12.6	0.1	0.6	21-150-138-()	21–150–238–()	21–150–338–()	21-150-438-()	21-150-538-()		
#4-40	1.6	~	13.0	1.2	4.7	12.6	9.1	0.6	21-250-138-()	21-250-238-()	21-250-338-()	21-250-438-()	21-250-538-()		
M3 . 5	1.6		15.5	1.2	F. C	14.2	0.0	0.6	21-350-138-()	21-350-238-()	21-350-338-()	21-350-438-()	21-350-538-()		
#6-32	1.6	~	15.5	1.2	5.6	14.3	9.9	0.6	21-450-138-()	21-450-238-()	21-450-338-()	21-450-438-()	21-450-538-()		

- Material of plastic knob can sustain high temperature in SMT process
- Production follows standard SMT process
- Color management is available as required by customers
- Functional device which prevents thread damage caused by inflow of tin in SMT process



Material and Finish

Knob:

6000 Series aluminum, plastic.

Screw:

400 Series stainless steel, passivated.

Spring:

300 Series stainless steel.

Ferrule:

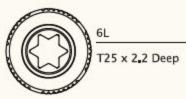
Hardened carbon steel, tin finish.

Reel



Recess Style

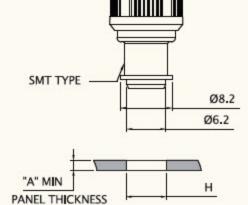






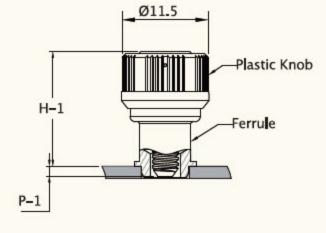


Installation Style

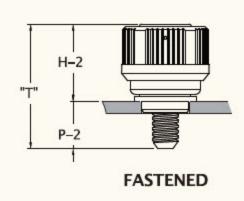


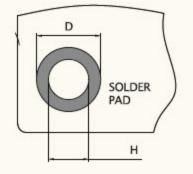
PANEL PREPARATION





UNFASTENED





Thread Size	ØD	Clearance Hole +0,2 (+,008) -0,1 (-,004)
M3.5	6.4 + 08 (.252 + 003)	9.0(.354)
#6-32	6.40 (.252000)	3.0(.334)

Knob Color Options

Standard colors

1	02	03	04	05	06	07	08

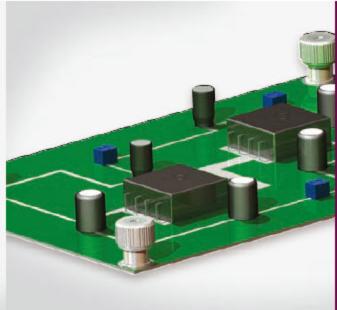
Dimensions

29–345–148–()–7––01~08 (color number.) mm

Thursd		PANEL NSIONS	0.000	SCREV	70 3 10 10 10 10 10 10 10 10 10 10 10 10 10	KN HE I O		TOTAL			PART NUMBER		
Thread		A MAX		- Table 10				FLOAT	S l ot Recess	Phi ll ips Recess	6L Recess	6L/S l ot Recess	Slot/Phillips Recess
M3.5	1.6		16.5		6.3	15.0	10.2	0.2	29-345-148-()-7	29-345-248-()-7	29-345-348-()-7	29-345-448-()-7	29-345-548-()-7
#6-32	1.6	~	16.5	1.3	6.3	15.2	10.2	0.3	29-445-148-()-7	29-445-248-()-7	29-445-348-()-7	29-445-448-()-7	29-445-548-()-7

- SMT full automatic reflux welding process can increase production stability and production efficiency
- Welding for reinstallation can increase product reliability
- Reduce a damage risk of circuit caused during assembling
- Functional device which prevents thread damage caused by inflow of tin in SMT process





Material and Finish

Knob:

6000 Series aluminum, natural.

Screw:

300 Series stainless steel.

Spring:

Installation Package

M3 PC-Board Style

Ø10.5 -

300 Series stainless steel.

Ferrule:

Low carbon steel, tin finish.

Reel

6-32 PC-Board Style

Ø11.5 -

Recess Style









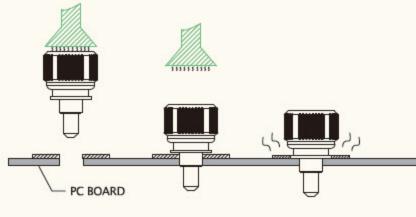


T15 x 1.8 Deep Slot Width=1 Slot Depth=1 Slot Length=5.4

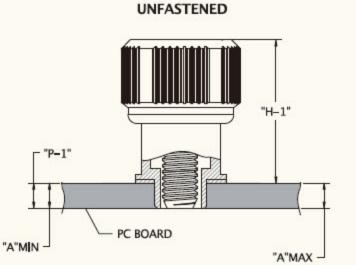
KNOB

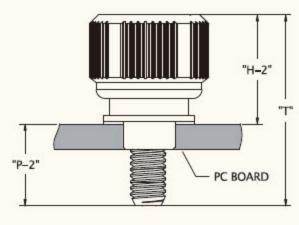
FERRULE .

SMT Installation

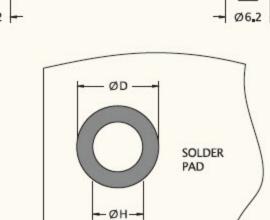








FASTENED



KNOB

FERRULE

M3 Thread Size

INSTALLATION STYLE		PANEL	ØH HOLE SIZE	ØD MIN	KNOB HEIGHT		SCREW PROJECTION		TOTAL	PART NUMBER			
	A MIN	A MAX	IN PANEL +0.08	SOLDER PAD		H - 2	P=1	P - 2	FLOAT	Phillips Recess	6L Recess	6L/Slot Recess	
CMT	1.6		6.0	0.0	12.2	83	1.6	5.5	0.5	39-150-220	39-150-320	39-150-420	
SMT	1.6	~	6.0	8.0	12.2	0.5	3.2	7.1	0.5	39-150-230	39-150-330	39-150-430	

■ 6-32 Thread Size

mm

INSTALLATION STYLE		PANEL	ØH HOLE SIZE	ØD MIN	KNOB HEIGHT H-1 H-2		SCREW PROJECTION P-1 P-2		TOTAL	PART NUMBER			
	A MIN	A MAX	IN PANEL +0.08	SOLDER PAD					FLOAT	Phillips Recess	6L Recess	6L/Slot Recess	
CMT	1.6		6.4	9.0	15 0	11.0	0.7	5.5	0.5	39-450-220	39-450-320	39-450-420	
SMT	1.6	~			15.0		2.2	7.0		39-450-230	39-450-330	39-450-430	

- Low profile design for hand operation
- SMT full automatic reflux welding process can increase
- production stability and production efficiency
- Welding for reinstallation can increase product reliability
- Reduce a damage risk of circuit caused during assembling
- The specification could be customized
- Functional device which prevents thread damage caused by inflow of tin in SMT process



Material and Finish

Konb:

6000 Series aluminum.

Screw:

Carbon steel, zinc finish.

Spring:

300 Series stainless steel.

Ferrule:

Carbon steel, tin finish.





Recess Style



SLOT
Width = 1.2
Depth = 1.3
Slot Length= 6



PHILLIPS

No.2
Phillips Recess



T25 x 2 2 Deen



6L/SLOT

T25 x 2.2 Deep Slot Width = 1 Slot Depth = 1 Slot Length= 5.4



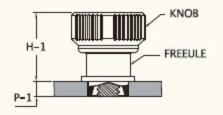
SLOT/PHILLIPS

No.2 Phillips Slot Width = 1.2 Slot Depth = 1.2 Slot Length= 6

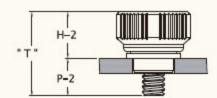
Knob Height and Screw Projection

SOL DER

PAD

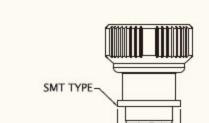


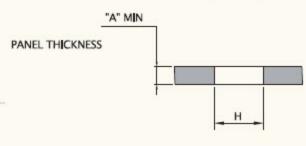
UNFASTENED



FASTENED







Ø8,2

Ø6.2

Thread Size Ø"H"HOLE SIZE Ø"D"MIN SOLDER PAD

M3.5

#6-32

Ø"H"HOLE SIZE Ø"D"MIN SOLDER PAD

9.0 (.354)

PANEL PREPARATION

■ Dimensions NEL SCREW KNOB PART NUMBER

		PANEL		SCREV		KN		TOTAL					
Thread		A MAX	T	OJECT P=1	P=2	HEIC	H - 2	FLOAT	Slot Recess	Phi l lips Recess	6L Recess	6L/S l ot Recess	Slot/Phillips Recess
M3.5	1.6		12.0	2.4	F 0	10.0	7.3	0.2	43-350-120	43-350-220	43-350-320	43-350-420	43-350-520
#6-32	1.6	~	13.0	2.4	5.8	10.6	7.2	0.3	43-450-120	43-450-220	43-450-320	43-450-420	43-450-520
M3.5	2.2		12.0	2.4	г о	10.6	7.2	0.3	43-351-120	43-351-220	43-351-320	43-351-420	43-351-520
#6-32	2.3	~	13.0	2.4	5.8	10.6	7.2	0.3	43-451-120	43-451-220	43-451-320	43-451-420	43-451-520

49 SERIES

- SMT full automatic reflux welding process can increase production stability and production efficiency
- Welding for reinstallation can increase product reliability
- Reduce a damage risk of circuit caused during assembling The specification could be customized
- Functional device which prevents thread damage caused by inflow of tin in SMT process



Material and Finish

Hardened carbon steel, nickel finish.

Spring:

300 Series stainless steel.

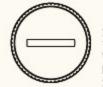
Ferrule:

Carbon steel, tin finish.

Reel



Recess Style



Width = 1.2Depth = 1.3 Slot Length=6



PHILLIPS No.2 Phi**ll**ips Recess





6L/SLOT

T25 x 2,2 Deep Slot Width =1 Slot Depth =1 Slot Length=5,4



Installation Style

SLOT/PHILLIPS

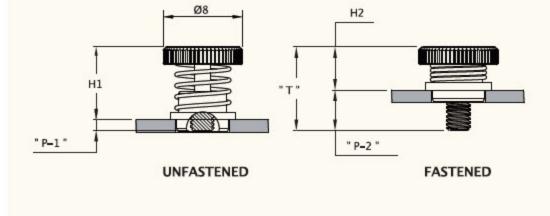
No.2 Phillips Slot Width = 1.2 Slot Depth =1.2 Slot Length=6

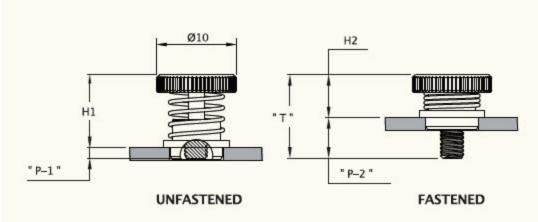
SMT Type

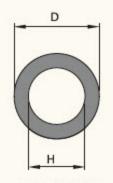
Ø6.55

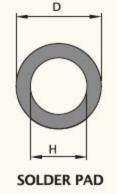
Ø8.0

Knob Height and Screw Projection









Ø"H"HOLE SIZE IN SHEET

Ø"D"MIN **SOLDER PAD** $6.75_{-0}^{+.08}$ (.266 $_{-000}^{+.003}$) 10.0 (.393)

"A" MIN

PANEL THICKNESS

PANEL PREPARATION

D

Dimensions	mm

Thread

Size

M3

#4-40

Throad	OUTER PANEL DIMENSIONS			SCREW PROJECTION		KNOB HE I GHT		TOTAL	PART NUMBER						
Thread		A MAX		The second	P-2		H-2	FLOAT	Slot Recess	Phi l lips Recess	6L Recess	6L/S l ot Recess	Slot/Phillips Recess		
M3(Ø8)	1.6	~	10 5	1 25	5.0	9.25		0.3	49-1516-1080-S43-X	49-1516-2080-S43-X	49-1516-3080-S43-X	49-1516-4080-S43-X	49-1516-5080-S43-X		
#4-40(Ø8)	1.0	~	10.5	1.23	3.0	9.23	5.5	0.3	49-2516-1080-S43-X	49-2516-2080-S43-X	49-2516-3080-S43-X	49-2516-4080-S43-X	49-2516-5080-S43-X		
M3(Ø10)	1.6	~	10.5	1 25	5.0	9.25	5.5	0.3	49-1516-1080-X43-X	49-1516-2080-X43-X	49-1516-3080-X43-X	49-1516-4080-X43-X	49-1516-5080-X43-X		
#4-40(Ø10)	1.0		10.5	1.23	3.0	3.23	5.5	0.5	49-2516-1080-X43-X	49-2516-2080-X43-X	49-2516-3080-X43-X	49-2516-4080-X43-X	49-2516-5080-X43-X		

- Material of plastic knob can sustain high temperature on **SMT** process
- **Production follows standard SMT process**
- Color management is available as required by customers
- Functional device which prevents thread damage caused by inflow of tin in SMT process

SMT Fastener Screw Patented.



Material and Finish Knob:

6000 Series Aluminum, Plastic

Screw:

Carbon Steel, Zinc Finish.

Spring:

300 Series Stainless Steel, Natural Finish.

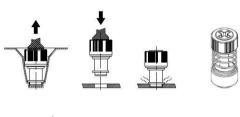
Ferrule:

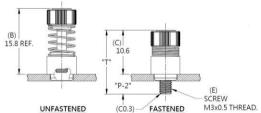
Carbon Steel, Tin Finish

Reel

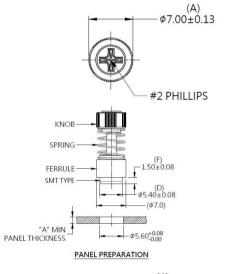


Installation



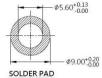


Panel Preparation



Color Options





Dimensions (mm)

SCREW LENGTH	SCREW PRO	OJECTION	PANEL TH	HICKNESS	DIMEN	SINOS
"T"	"P-1"	"P-2"	"A" MIN	"A" MAX	" L "	" B "
15.4		4.8	1.6	~		