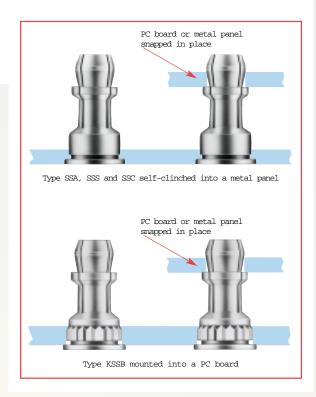


PEM® SNAP-TOP STANDOFFS

PEM SNAP-TOP[®] Standoffs (Types SSA, SSS, SSC, KSSB) are designed for permanent installation into metal panels or PC boards.

These all-metal standoffs use a spring action to hold PC boards and subassemblies securely, while allowing for quick removal. Screws and other threaded hardware are eliminated. This means less parts to handle during assembly and less risk of damaging delicate circuitry because of loose parts falling into your equipment.

These standoffs are permanently installed in the panel by squeezing them into a punched or drilled hole using any standard press. Installation forces, pushout, and snap forces, are listed on page 6.



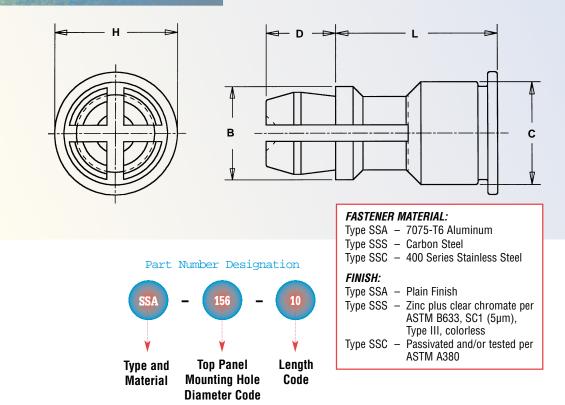
©Copyright 1997 PEM[®] Fastening Systems, a PennEngineering Company. PEM is a brand name and a registered trademark for fasteners manufactured exclusively by PEM Fastening Systems.





To be sure that you are getting genuine PEM® brand SNAP-TOP® standoffs, look

TYPES SSA[™], SSS[™], SSC[™] For clinching into metal sheets



Dimensional Data

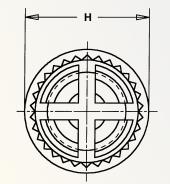
All dimensions are in inches.

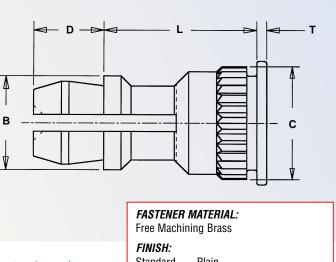
Д		Туре		Top Panel				14	anath Code	e "L" ±.00	15				р	ſ	n	u
БIE	Aluminum	Carbon Steel	Stainless Steel	Mounting Hole Diameter Code						B2nds of a					±.005	Max.	±.005	н ±.005
ΙΙΝ				150	.250	.312	.375	.437	.500	.562	.625	.750	.875	1.00				
D	SSA	SSS	SSC	156	8	10	12	14	16	18	20	24	28	32	.188	.212	.141	.250

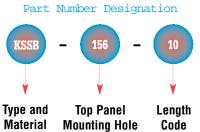
All dimensions are in millimeters.

RIC	Aluminum	Type Carbon Steel	Stainless Steel	Top Panel Mounting Hole Diameter Code					Code "L" ode in mill					B ±0.13	C Max.	D ±0.13	H ±0.13
MET	SSA	SSS	SSC	4mm	8	10	12	14	16	18	20	22	25	4.78	5.39	3.58	6.35

TYPE KSSB[™] For broaching into PC boards







Diameter Code

Standard – Plain Optional* – Electroplated Bright Tin, ASTM B545 Class B (5µm)

with preservative coating

*Available on special order with additional charge.

Dimensional Data

All dimensions are in inches.

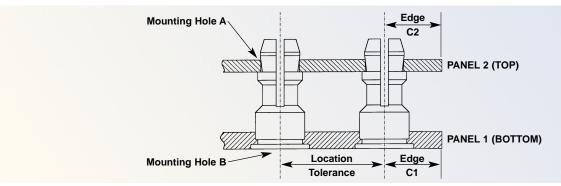
FIED	Туре	Top Panel Mounting Hole Diameter Code						e "L" ±.00 32nds of ar					B ±.005	C ±.003	D ±.005	H ±.005	T ±.005
UNI	KSSB	156	.250	.312	.375	.437	.500	.562	.625	.750	.875	1.00	.188	.226	.141	.250	.020
р			8	10	12	14	16	18	20	24	28	32					

All dimensions are in millimeters.

RIC	Туре	Top Panel Mounting Hole Diameter Code					h Code "L" Code in mill					В ±0.13	C ±0.08	D ±0.13	H ±0.13	T ±0.13
MET	KSSB	4mm	8	10	12	14	16	18	20	22	25	4.78	5.74	3.58	6.35	0.51

APPLICATION DATA

TYPES SSA, SSS, SSC

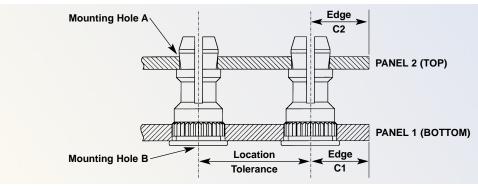


All	dimensions	are	in	inches.

				Pan	el 1					Panel 2		
FIED	Туре	Bottom Mounting Hole B +.003000	Panel Material	Hardness Max. (1)	Thickness Min.	Edge Distance C ₁ Min.	Location Tolerance Max.	Top Mounting Hole A +.003000	Panel Material	Hardness Max.	Thickness Range (2)	Edge Distance C ₂ Min.
н	SSA			HRB 50								
U N	SSS	.213	Metal ⁽¹⁾	HRB 60	.040	.260	±.005	.156	PC Board or Metal	No Limit	.040070	.100
	SSC			HRB 70					UT WIELDI			
		All dimong	1 1.									

		All dimens	sions are i	n millimet	ers.							
				Par	iel 1					Panel 2		
RIC	Туре	Bottom Mounting Hole B +0.08	Panel Material	Hardness Max. (1)	Thickness Min.	Edge Distance C ₁ Min.	Location Tolerance Max.	Top Mounting Hole A +0.08	Panel Material	Hardness Max.	Thickness Range (2)	Edge Distance C ₂ Min.
MET	SSA SSS	5.41	Metal ⁽¹⁾	HRB 50 HRB 60	1	6.6	±0.13	4	PC Board or Metal	No Limit	1-1.8	2.54
	SSC			HRB 70								

TYPE KSSB

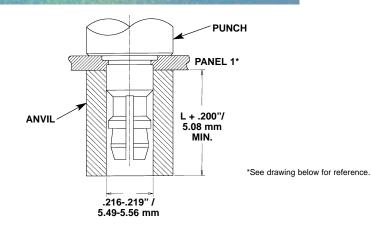


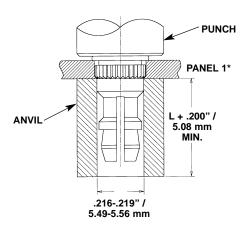
	All	dimensions	are	in	inches.	
--	-----	------------	-----	----	---------	--

				Pan	el 1					Panel 2		
LFIED	Туре	Bottom Mounting Hole B +.003000	Panel Material	Hardness Max.	Thickness Min.	Edge Distance C ₁ Min.	Location Tolerance Max.	Top Mounting Hole A +.003000	Panel Material	Hardness Max.	Thickness Range (2)	Edge Distance C ₂ Min.
ΠΩ	KSSB	.213	PC Board	HRB 65	.050	.220	±.005	.156	PC Board or Metal	No Limit	.040070	.100

		All dimens	ions are i	n millimet	ers							
				Pan	el 1					Panel 2		
TRIC	Туре	Bottom Mounting Hole B +0.08	Panel Material	Hardness Max.	Thickness Min.	Edge Distance C ₁ Min.	Location Tolerance Max.	Top Mounting Hole A +0.08	Panel Material	Hardness Max.	Thickness Range (2)	Edge Distance C ₂ Min.
ME	KSSB	5.41	PC Board	HRB 65	1.27	5.59	±0.13	4	PC Board or Metal	No Limit	1-1.8	2.54

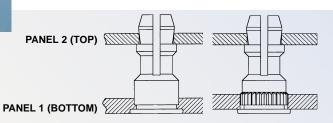
INSTALLATION





- Punch or drill the properly sized mounting hole in the panel.
- **2.** Place the fastener through the mounting hole of the panel and into the anvil as shown in the drawing.
- 3. With punch and anvil surfaces parallel, apply only enough squeezing force to embed the head flush with the panel.
- **1.** Punch or drill the properly sized mounting hole in the board.
- 2. Place the fastener through the mounting hole of the board and into the anvil as shown in the drawing.
- **3.** With punch and anvil surfaces parallel, apply only enough squeezing force to bring the head into contact with the board.

PERFORMANCE DATA⁽¹⁾



		Panel 1				Panel 2 (Removable)
	Туре	Test Sheet Thickness & Material	Installation (lbs.)	Pushout (Ibs.)	Max. First on Snap Force (lbs.)	Min. First off Snap Force (lbs.)	Min. 15th off Snap Force (lbs.)
ЕD	SSA	Aluminum	1500	200	13	3	1
БI	SSS	Aluminum	1500	200	20	6	2
ΗN	SSS	Cold-rolled Steel	3500	400	20	6	2
D	SSC	Cold-rolled Steel	3600	400	20	6	2
	KSSB	FR-4 Fiberglass	500	110	13	3	1

		Panel 1				Panel 2 (Removable))
	Туре	Test Sheet Thickness & Material	Installation (kN)	Pushout (kN)	Max. First on Snap Force (N)	Min. First off Snap Force (N)	Min. 15th off Snap Force (N)
СI	SSA	Aluminum	6.7	880	58	13	4
ТК	SSS	Aluminum	6.7	880	89	27	9
E	SSS	Cold-rolled Steel	15.5	1780	89	27	9
M	SSC	Cold-rolled Steel	16	1780	89	27	9
	KSSB	FR-4 Fiberglass	2.2	484	58	13	4

The installation and pushout values reported are averages when all installation specifications and procedures are followed. Variations in mounting hole size, panel material and installation procedure will affect this data. Performance testing of this product in your application is



World Headquarters:

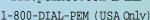
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