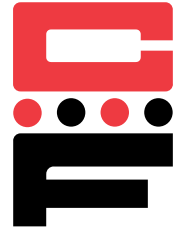




# Broaching-Type Fasteners

## Series CKF2 & CKFS2



CKF2 and CKFS2 broaching-type fasteners are designed for use on printed circuit boards and on most brittle or hard materials: glass laminates, epoxy or resin with paper, nylon, or canvas bases. They are also used on materials too thin or unsuitable for threading, such as acrylic and polycarbonate panels.

Series	Material	Finish
CKF2	Carbon Steel	Electro tin plating (Zinc* optional)
CKFS2	300 Series Stainless Steel	Passivated ASTM A380

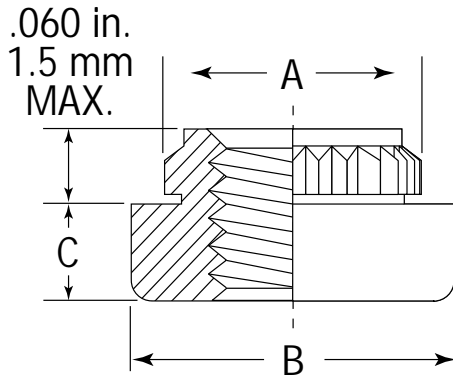
\*Spec. ASTM B633-85

Thread: Class 2B, MIL-S-7742; (6H ISO Metric).

Use in: Materials with Rockwell Hardness of B-60 or less.

Since the aforementioned materials do not flow under pressure, these fasteners are designed with a knurled shank that can be pressed into a drilled hole. The shank grips the board with an interference fit by broaching its way into the panel as it is squeezed into the holes.

All fasteners from Captive Fastener are identical to industry standards so that they can be fed through standard automatic insertion equipment.



### Dimensions & Specifications

Thread Size	Part Number		A ± .003	B ± .005	C ± .005	+ .003 - .000	Min.	Min.	
	Carbon Steel	Stainless Steel							
INCH (in.)	#2-56	CKF2256	CKFS2256	.165	.219	.065	.147	.16	.060
	#4-40	CKF2440	CKFS2440	.184	.219	.065	.166	.17	.060
	#6-32	CKF2632	CKFS2632	.231	.281	.065	.213	.22	.060
	#8-32	CKF2832	CKFS2832	.268	.344	.096	.250	.25	.060
	#10-24	CKF21024	CKFS21024	.290	.375	.127	.272	.28	.060
	#10-32	CKF21032	CKFS21032	.290	.375	.127	.272	.28	.060
METRIC (mm)	M2.5	CKF2M2.5	CKFS2M2.5	4.68	5.56	1.5	4.2	4.5	1.5
	M3 x 0.5	CKF2M3	CKFS2M3	4.68	5.56	1.5	4.2	4.5	1.5
	M4 x 0.7	CKF2M4	CKFS2M4	6.81	8.74	2.0	6.4	6.4	1.5
	M5 x 0.8	CKF2M5	CKFS2M5	7.37	9.53	3.0	6.9	7.1	1.5
							+ .08 - .000	Min.	Min.

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

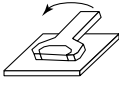
# Broaching-Type Fasteners

## Series CKF2 & CKFS2



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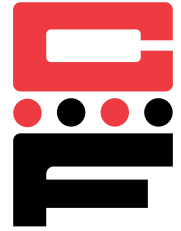
### Installation & Performance Data

Fiberglass 0.060 in. (1.5 mm)				
				
	Thread Size	Installation Force (lbs.)	Pushout (lbs.)	Torque-out (in.-lbs.)
INCH (in.)	#2-56	400	60	6
	#4-40	400	65	15
	#6-32	500	80	30
	#8-32	700	95	35
	#10-24	700	100	40
	#10-32	700	100	40
	Thread Size	Installation Force (kN)	Pushout (N)	Torque-out (N•m)
METRIC (mm)	M2.5	2.22	200	1.35
	M3	2.22	200	1.35
	M4	2.22	330	3.73
	M5	2.90	350	4.52



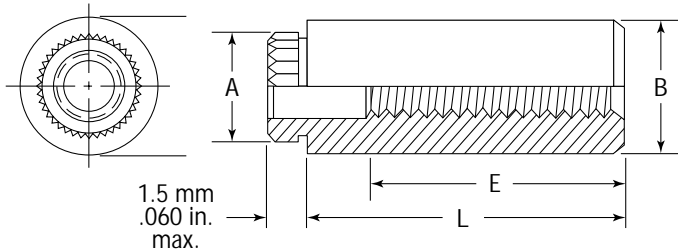
# Broaching-Type Fasteners

## Series CKFE & CKFSE



CKFE and CKFSE threaded and non-threaded standoffs allow screws to be inserted through multiple layered boards for stacked assemblies. All fasteners from Captive Fastener are identical to industry standards so that they can be fed through standard automatic insertion equipment.

Series	Material	Finish
CKFE	Carbon Steel	Electro Tin Plating (Zinc* Clear Optional)
CKFSE	300 Series Stainless Steel	Passivated ASTM A380



\*Spec. ASTM B633-85

Thread: Class 2B, MIL-S-7742; (6H ISO Metric).

Use in: Materials with Rockwell Hardness of B-60 or less.

Part Number Structure:

CKFE 440-4



### Dimensions & Specifications

Thread Size	Thru Hole +.004 -.003	Part Number		L Length ± .005 in.							A ± .003 in.	B ± .005 in.	+.003 in. -.000	Min.	
		Carbon Steel	Stainless Steel	.125	.250	.375	.500	.625	.750	.875					
INCH (in.)	#4-40	CKFE440	CKFSE440	-4	-8	-12	-16	-20	-24		.184	.219	.166	.17	
	#6-32	CKFE632	CKFSE632	-4	-8	-12	-16	-20	-24*	-28*	.231	.281	.213	.22	
	.116	CKFE116	CKFSE116	-4	-8	-12	-16	-20	-24		.184	.219	.166	.17	
	.143	CKFE143	CKFSE143	-4	-8	-12	-16	-20	-24	-28*	.231	.281	.213	.22	
E=minimum thread length				Full			.375 ± .015								
METRIC (mm)	Thread Size	+.010 -.008	Part Number		Length ± 0.13 mm							A ± .08 mm	B ± .13 mm	+.08 mm -0.00	Min.
			Carbon Steel	Stainless Steel	3	4	6	8	10	12	14				
	M3x0.5	CKFEM3	CKFSEM3									4.68	5.56	4.2	4.4
		3.6	CKFE3.6	CKFSE3.6	-3	-4	-6	-8	-10	-12	-14	-16	5.87	7.14	5.4
	4.2	CKFE4.2	CKFSE4.2								6.81	8.74	6.4	7.1	
E=minimum thread length (where applicable)				Full			9.5 ± 0.4								

### Installation & Performance Data

Thread Size	Fiberglass 0.060 in. (1.5 mm)			
	Installation Force (lbs.)	Pushout (lbs.)	Torque-out (in.-lbs.)	
INCH (in.)	#4-40	500	65	12
	#6-32	500	80	28
METRIC (mm)	Installation Force (kN)	Pushout (N)	Torque-out (N·m)	
	M3	2.22	200	1.35

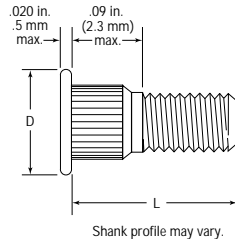


# Broaching-Type Studs

## Series CKFH



CKFH broaching-type studs are electroplated with tin so they are readily solderable. Thus, they can be used both as solderable connectors and as permanently mounted mechanical fasteners.



Shank profile may vary.

Series	Material	Finish
CKFH	Phosphor Bronze CDA-510	Electro Tin Plating (Zinc* Optional)

\*Spec. ASTM B633-85

Thread: Class 2A, MIL-S-7742; (6g ISO Metric).

Use in: Materials with Rockwell Hardness of B-55 or less.

### Dimensions & Specifications

	Thread Size	Part Number	L ±.010 Length						D ±.010	Max. Size Clear. Hole in Attach. Parts	Max. Nut Tight. Torque (in.-lbs.)	Anvil Hole Min.	Anvil Hole +.003 - .000	Min.	
			.250	.312	.375	.500	.625	.750							
INCH (in.)	#4-40	CKFH440	-4	-5	-6	-8	-10	-12	.18	.120	.145	4	.15	.113	.060
	#6-32	CKFH632	-4	-5	-6	-8	-10	-12	.20	.140	.170	8	.19	.140	.060
	#8-32	CKFH832		-5	-6	-8	-10	-12	.23	.166	.195	15	.20	.166	.060
	#10-32	CKFH1032			-6	-8	-10	-12	.25	.189	.220	18	.20	.191	.060
	Thread Size	Part Number	L ±.25 Length						D ±.25	Max. Size Clear. Hole in Attach. Parts	Max. Nut Tight. Torque (N•m)	Anvil Hole Min.	Anvil Hole +.08 - .000	Min.	
			6	8	10	12	15	18							
METRIC (mm)	M3x0.5	CKFHM3	-6	-8	-10	-12	-15	-18	4.58	3.0	3.7	0.45	3.8	3.1	1.5
	M4x0.7	CKFHM4		-8	-10	-12	-15	-18	5.74	4.2	4.8	1.60	5.1	4.1	1.5
	M5x0.8	CKFHM5			-10	-12	-15	-18	6.60	5.0	5.8	2.10	5.3	5.1	1.5

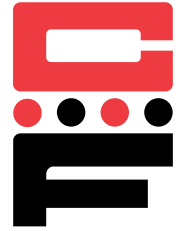
### Installation & Performance Data

	Thread Size	Fiberglass 0.060 in. (1.5 mm)		
		Installation Force (lbs.)	Pushout (lbs.)	Torque-out (in.-lbs.)
INCH (in.)	#4-40	400	65	7
	#6-32	400	70	11
	#8-32	400	80	16
	#10-32	400	90	17
	Thread Size	Installation Force (kN)	Pushout (N)	Torque-out (N•m)
METRIC (mm)	M3	1.80	285	0.79
	M4	1.80	355	1.80
	M5	1.80	400	1.92

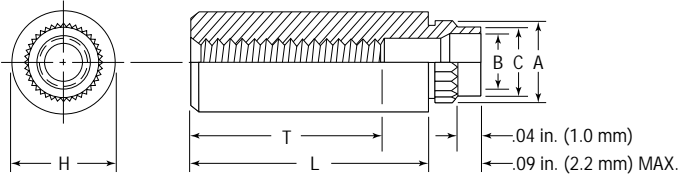


# Flare Mounted Threaded Standoffs

## Series CKFB3



CKFB3 flare mounted threaded standoffs provide a flared shank for stronger holding power and are used for spacing or stacking P-C boards.



Series	Material	Finish
CKFB3	Brass CDA-360	Electro tin plating (Zinc* optional)

\*Spec. ASTM B633-85

Thread: Class 2B, MIL-S-7742; (6H ISO Metric).

Use in: Materials with Rockwell Hardness of B-65 or less.

### Dimensions & Specifications

INCH (in.)	Thread Size	Part Number	L Length $\pm .015$ in.								A $\pm .003$	C Max.	B $\pm .003$	H $\pm .005$	+ .005 - .001	Min.	Min.	
			.0625	.125	.1875	.250	.3125	.375	.500	.625								.750
			Full															$.375 + .015$
	#4-40	CKFB3440	-2	-4	-6	-8	-10	-12	-16	-20		.179	.165	.122	.22	.166	.17	.050
	#6-32	CKFB3632	-2	-4	-6	-8	-10	-12	-16	-20*	-24*	.226	.212	.171	.28	.213	.22	.065
	"T" Minimum thread length		Full								$.375 + .015$							

### Dimensions & Specifications

METRIC (mm)	Thread Size	Part Number	L Length $\pm 0.13$ mm								A $\pm .08$	C Max.	B $\pm .08$	H $\pm .13$	+ .13 - .03	Min.	Min.	
			2	3	4	6	8	10	12	14								16
			Full															$9.5 \pm 0.4$
	M3x0.5	CKFB3M3	-2	-3	-4	-6	-8	-10	-12	-14	-16	4.55	4.21	3.20	5.56	4.2	4.33	1.27
	M4x0.7	CKFB3M4	-2	-3	-4	-6	-8	-10	-12	-14	-16	6.68	6.40	5.23	8.74	6.4	6.36	1.65
	"T" Minimum thread length		Full								$9.5 \pm 0.4$							

### Installation & Performance Data

		Fiberglass 0.060 in. (1.5 mm)			
Thread Size		Installation Force (lbs.)	Pushout (lbs.)	Torque-out (in.-lbs.)	
INCH (in.)	#4-40	500	140	18	
	#6-32	500	170	28	
Thread Size		Installation Force (kN)	Pushout (N)	Torque-out (N•m)	
METRIC (mm)	M3	4.4	560	2.02	
	M4	6.0	680	3.20	