

**iZIF™ HEAT FRAME**

**GENERAL DESCRIPTION**

The iZIF™ is a custom aluminum heat frame that integrates the PCB retainer for improved structural integrity and thermal efficiency (.8°C-in./W). The iZIF™ is a highly reliable patent-pending design for rugged military and aerospace circuit card applications. It features a quarter-turn lock, uniform clamping pressure, and can be sized to fit small daughter cards up to 9U VME. A bottom plate may also be added for additional cooling and structural integrity. The iZIF™ features a 1/8" stainless steel socket head cap rod with beryllium copper spring. A variety of finishes are available such as chemical film, black anodize, and electroless nickel.



**THERMAL LINKS**

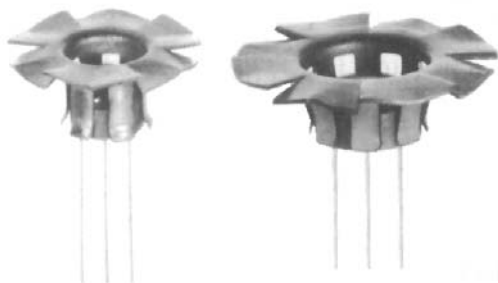
**GENERAL DESCRIPTION**

CTS's thermal links provide superior retention because of the 6 to 8-segment fingers versus the 2 or 3-segment fingers available from other manufacturers. These thermal links are offered for TO-5s, TO-8s and TO-18s with or without BeO washer and other appropriate hardware.

They provide an effective retainer and efficient thermal path between semiconductor and heat sinks or chassis.

There is excellent transistor retention under high vibration and shock loads. The thermal links can be inserted and removed multiple times without loss of retention or damage to the finish over the entire JEDEC case diameter range. They can be installed with a rivet or eyelet, soldered to a PC pad or heat sink, mounted with a single screw or with a threaded stud and hex nut.

**FAN TOP SERIES**



TXCF-032-025

**Fan Tops**

"A" Dim.	"B" Dim.	Semiconductor Case Type	*Ø °C/W	Part Number			Material
				Unplated	Black Cadmium	Black Chem.	
.25	.50	TO-18	150.0	TXBF-019-025U	TXBF-019-025B	N.A.	BeCu
.25	.50	TO-18	150.0	TXCF-019-025U	N.A.	TXCF-019-025CB	Brass
.25	.75	TO-5	81.1	TXBF-032-025U	TXBF-032-025B	N.A.	BeCu
.25	.75	TO-5	81.1	TXCF-032-025U	N.A.	TXCF-032-025CB	Brass
.36	1.25	TO-5	57.7	TXBF2-032-036U	TXBF2-032-036B	N.A.	Brass Fan BeCu Retainer
.33	1.25	TO-8	41.0	TXBF2-050-033U	TXBF2-050-033B	N.A.	Brass Fan BeCu Retainer
.12	1.25	TO-5	56.6	TXCF-125-1U	TXCF-125-1CB	N.A.	Brass
.12	1.25	TO-8	56.6	TXCF-125-2U	TXCF-125-2B	N.A.	Brass

\*Natural convection, case-ambient mounted on G10 board

## THERMAL LINKS FOR TO-5, TO-8 AND TO-18 TRANSISTORS

### Thermal Link Retainers Without BeO Insulators

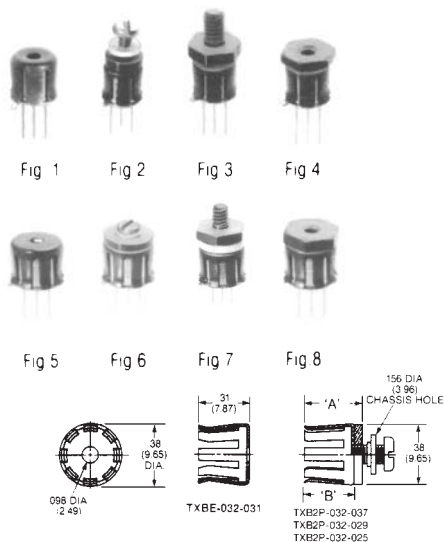


Fig. #	Semiconductor Case Type	Part Number		Mounting Method
		Black Cadmium Finish	Dull Nickel Finish	
1	TO-18	TXBE-019-021B	TXBE-019-021ND	Rivet/Solder
2	TO-18	TXB2P-019-028B	TXB2P-019-028ND	2-56 Screw
3	TO-18	TX1807B	TX1807ND	4-40 Stud
3	TO-18	TX1807-1B	TX1807-1ND	6-32 Stud
4	TO-18	TX1847B	TX1847ND	2-56 Hex Nut
5	TO-5	TXBE-032-031B	TXBE-032-031ND	Rivet/Solder
6	TO-5	TXB2P-032-037B	TXB2P-032-037ND	4-40 Screw
7	TO-5	TX0507-1B	TX0507-1ND	6-32 Stud
7	TO-5	TX0507-2B	TX0507-2ND	10-32 Stud
8	TO-5	TX0547B	TX0547ND	14-40 Hex Nut

Dimensions are for reference use only. Contact CTS for dimensions with tolerances or standard part drawings.

### Thermal Link Retainers With BeO Insulators

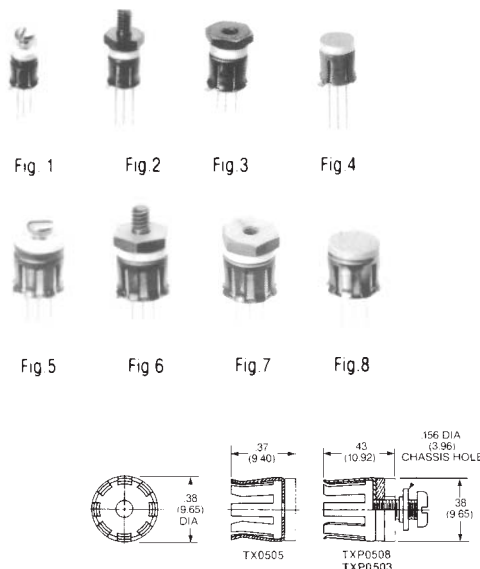


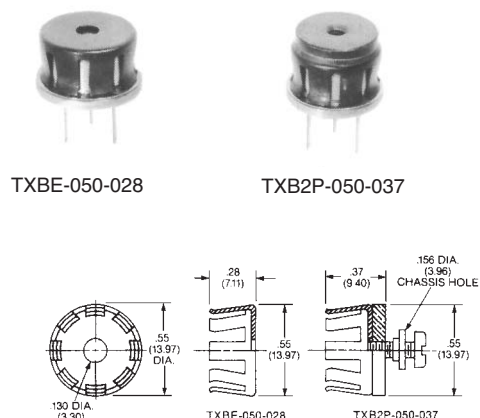
Fig. #	Semiconductor Case Type	Part Number		Mounting Method
		Black Cadmium Finish	Dull Nickel Finish	
1	TO-18	TXP1803B	TXP1803ND	2-56 Screw
1	TO-18**	TXP1808B	TXP1808ND	2-56 Screw
2	TO-18	TX1806B	TX1806ND	4-40 Stud
2	TO-18	TX1806-1B	TX1806-1ND	6-32 Stud
3	TO-18	TX1822B	TX1822ND	2-56 Hex Nut
4	TO-18	—	TX1805-ND	Solder
5	TO-5	TXP0503B	TXP0503ND	4-40 Screw
5	TO-5**	TXP0508B	TXP0508ND	4-40 Screw
6	TO-5	TX0506-1B	TX0506-1ND	6-32 Stud
6	TO-5	TX0506-2B	TX0506-2ND	10-32 Stud
7	TO-5	TX0522B	TX0522ND	4-40 Hex Nut
8	TO-5	—	TX0505-ND	Solder

\*\*BeO and thermal link are brazed together.

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## THERMAL LINKS FOR TO-8s

### Thermal Link Retainers Without BeO Insulators



Part Number		Mounting Method	Max. Weight (Grams)	Case Diameter
Black Cadmium Finish	Dull Nickel Finish			
TXBE-045-028B	TXBE-045-028ND	Solder, Epoxy, Rivet	1.5	0.455
TXB2P-045-037B	TXB2P-045-037ND	4-40 Screw	4.5	0.455
TXBE-050-028B	TXBE-050-028ND	Solder, Epoxy, Rivet	1.5	0.500
TXB2P-050-037B	TXB2P-050-037ND	4-40 Screw	4.5	0.500
TXBE-055-028B	TXBE-055-028ND	Solder, Epoxy, Rivet	1.5	0.550
TXB2P-055-037B	TXB2P-055-037ND	4-40 Screw	4.5	0.550

Screw and shouldered nylon washer for .060 chassis included; If mounting hardware not desired, deleted "P" from part number.

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