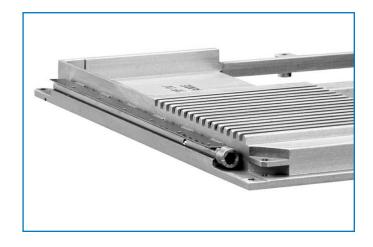
# CTS.

## **iZIF™ HEAT FRAME**

### **GENERAL DESCRIPTION**

The iZIF<sup>TM</sup> is a custom aluminum heat frame that integrates the PCB retainer for improved structural integrity and thermal efficiency (.8°C-in./W). The iZIF<sup>TM</sup> is a highly reliable patentpending 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<sup>TM</sup> 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

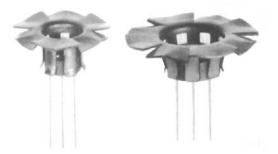
## **GENERAL DESCRIPTION**

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.

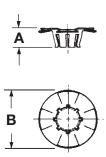
They provide an effective retainer and efficient thermal path between semiconductor and heat sinks or chassis.

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



#### Fan Tops

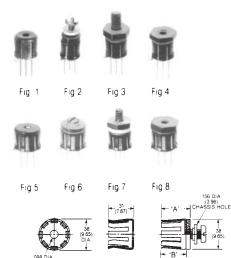


TXCF-032-025

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

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

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



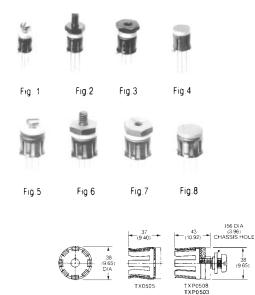
TXBE-032-031

TXB2P-032-037 TXB2P-032-029 TXB2P-032-025

#### **Thermal Link Retainers Without BeO Insulators**

	Semiconductor Part Number Mounting				
Fig.	Semiconductor	Part Nur	Mounting		
#	Case Type	Black Cadmium Finish	Dull Nickel Finish	Method	
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	
. 38	59	. 41			
(9.65)	• (14.99) • •	19 (10.41)			

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



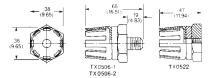
#### **Thermal Link Retainers With BeO Insulators**

TX0547

Fig.	Semiconductor	Part Nur	Mounting	
#	Case Type	Black Cadmium Finish	Dull Nickel Finish	Method
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.

TX0507-1 TX0507-2



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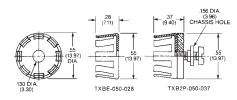
## **THERMAL LINKS FOR TO-8s**





TXBE-050-028

TXB2P-050-037



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

#### **Thermal Link Retainers Without BeO Insulators**

Part Nur	nber	Mounting	Max. Weight	Case	
Black Cadmium Finish	Dull Nickel Finish	Method	(Grams)	Diameter	
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.

