

# AAVID THERMALLOY Clips and Accessories



This product is RoHS compliant.

## MAX CLIP® SYSTEM™

The Max Clip® System™ for power semiconductors is a high performance, low cost solution to eliminate mounting holes, screws, rivets, and thermal inefficiency. This quick, efficient attachment method saves on labor and hardware costs while increasing design flexibility.

### Features:

- Reduces assembly cost and labor
- Optimizes thermal management
- Reduces overall thermal resistance
- Provides mounting for discrete power devices, with or without mounting holes
- Allows for easy movement or replacement of components
- Eliminates mounting hardware and tools

MOUSER STOCK NO.	Aavid Part No.	Fig.	Description	Dimensions: mm			Force (lbs.)	Price Each		
				Length	Width	Thickness		1	10	100
<b>Rail Mounted</b>										
532-MAXCLIP01G	MAX01NG	A	For TO-220, Max 220	14.7	10	0.5	4.9			
532-MAXCLIP03G	MAX03NG	B	For TO-220, TO-247, Max 247	14.7	15	0.5	10.1			
532-MAXCLIP03-HG	MAX03-HNG	B	For TO-247, Max 247, TO-247J	14.7	18	0.6	18			
532-MAXCLIP10G	MAX10NG	C	For TO-220, Max 220 Thin Components	19.7	12	0.6	9			
532-MAXCLIP09G	MAX09NG	D	For TO-220	10.1	10	0.5	10.1			
532-MAXCLIP01-HG	MAX01-HNG	D	For TO-220, Max 220	14.7	10	0.7	18			
532-MAXCLIP02G	MAX02NG	D	For TO-220, Max 220	14.7	12	0.5	7.9			
532-MAXCLIP02-HG	MAX02-HNG	D	For TO-220	10.1	10	0.5	13.5			
532-MAXCLIP04G	MAX04NG	E	For TO-247, Max 247, TO-247J	14.7	20	0.5	13.5			
532-MAXCLIP11G	MAX11NG	F	For TO-220, Max 220 Thin Components	24.7	12	0.6	9			
532-MAXCLIP12G	MAX12NG	F	For TO-92 Sensors	19.7	6	0.6	5.6			
532-MAXCLIP23G	MAX23NG	G	For TO-220, Max 220	14.7	18	0.6	22.5			
<b>Screw On</b>										
532-MAXCLIP07G	MAX07NG	H	For TO-220, Max 220, Max 247	.87	12	0.5	11.2			
532-MAXCLIP08G	MAX08NG	I	For TO-218, TO-247, Max 247, TO-247J	.93	18	0.5	16.9			
<b>Clip over Edge</b>										
532-CLP212G	CLP212G	J	For TO-220/Max220	18.9	10	0.5	4.7			
532-CLP212MG	CLP212MG	K	For TO-247/Max247	18.9	15	0.6	8.1			
532-CLP212SG	CLP212SG	L	For Sensors/Thin Components	10.0	7	0.5	4.5			
532-CLP212TG	CLP212TG	M	For TO-220/Max220	14.6	10	0.6	7.6			

## INSULATING SHOULDER WASHERS

- 40% Glass-filled polyphenylene sulfide (PPS)
- Chemically inert

MOUSER STOCK NO.	Aavid Part No.	Fig.	Dimensions: in.					Screw Size	Price Each		
			A	B	C	D	E		1	10	100
532-7721-3PPS	7721-3PPSG	N	.280	.125	.042	.112	.140	4			
532-7721-7PPS	7721-7PPSG	N	.215	.032	.040	.116	.139	4			
532-7721-8PPS	7721-8PPSG	O	.245	.040	.040	.119	.140	4			

## INSULATORS

- Mica insulators provide high maximum operating temperatures (550°C) and excellent electrical properties
- Aluminum oxide has unique thermal conductivity qualities and features low loss factors at high frequencies
- It has high compressive strengths, high volume resistivity, low thermal expansion and it resists radiation

MOUSER STOCK NO.	Aavid Part No.	Fig.	Description	Dimensions: in.					Price Each		
				A	B	C	D	E	1	10	100
532-56-77-11	56-77-11G	P	TO-220 Mica Insulators	.745	.545	.212	.212	.120			
532-4170	4170G	P	Aluminum Oxide Ceramic for TO-220	.760	.550	.188	.275	.145			
532-4180	4180G	P	Aluminum Oxide Ceramic for TO-218, TO-247 and TO-3P	.915	.740	.275	.370	.156			

## THERMALLY CONDUCTIVE INSULATORS

- Polyimide Plastic
- Color-Amber
- Low Cost
- Easily recognized and assembled on production line

MOUSER STOCK NO.	Aavid Part No.	Fig.	Description	Dimensions: in.				Price Each		
				A	B	C	D	1	10	100
532-43-77-9	43-77-9G	Q	TO-220 Thermalfilm™	.725	.520	.170	.115			
532-53-77-4G	53-77-4G	Q	TO-220 Thermalsil™ III	.750	.500	.187	.147			
532-53-77-4ACG	53-77-4ACG	Q	TO-220 Thermalsil™ III w/adhesive backing	.750	.500	.187	.147			
532-53-77-9	53-77-9G	Q	TO-220 Thermalsil™ III	.750	.520	.170	.115			
532-53-77-9ACG	53-77-9ACG	Q	TO-220 Thermalsil™ III w/adhesive backing	.750	.520	.170	.115			

## MOUNTING KITS

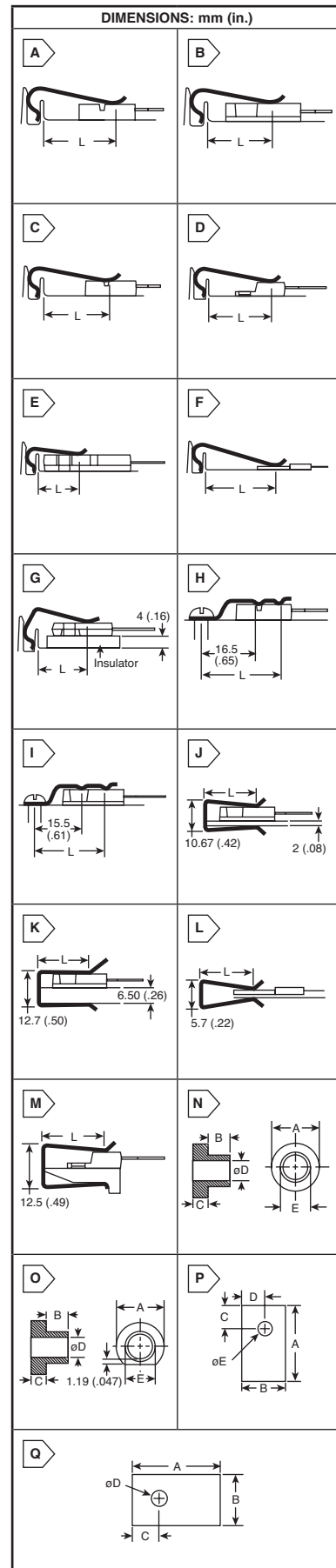
- Pre-packaged in heat-seated plastic bags for use on assembly line

MOUSER STOCK NO.	Aavid Part No.	Description	Price Each		
			1	10	100
532-4880M	4880MG	<b>Mica Insulator Mounting Kit for TO-220:</b> 1 Insulator Mica, 1 Shoulder Washer, 1 Flat Washer #4, 1 No. 4-40 UNC-2B Hex Nut, 1 No. 4-40, UNC-2A X 1/2 Long Phillips Pan Head Screw, 1 Lockwasher, No. 4			
532-4880	4880G	<b>Thermalfilm™ Mounting Kit for TO-220:</b> 1 Insulator Thermalfilm, 1 Shoulder Washer, 1 Flat Washer #4, 1 No. 4-40 UNC-2B Hex Nut, 1 No. 4-40 UNC-2A X 1/2 Long Phillips Pan Head Screw, 1 Lockwasher, No. 4			
532-4880SG	4880SG	<b>Thermalsil™ III Mounting Kit for TO-220:</b> 1 Insulator In Sil-8, 1 Shoulder Washer, 1 Flat Washer #4, 1 No. 4-40 UNC-2B Hex Nut, 1 No. 4-40 UNC-2A X 1/2 Long Phillips Pan Head Screw, 1 Lockwasher, No. 4			

## THERMAL COMPOUNDS

- Shelf Life: indefinite if unopened (one year if opened)    \* Shelf Life: 2 years from DOM

MOUSER STOCK NO.	Aavid Part No.	Description	Color	Dielectric Strength	Thermal Conductivity	Price Each	
						1	10
532-249	249G	1oz. Thermal Joint Compound	Opaque White	300V/mil	.765Wm-1°C-1		
532-250	250G	2oz. Thermal Joint Compound	Opaque White	300V/mil	.765Wm-1°C-1		
532-251	251G	1lb. Thermal Joint Compound	Opaque White	300V/mil	.765Wm-1°C-1		
* 532-100500F00	100500F00000G	5oz. Thermally Conductive Compound	White	250V/mil	.73 W/(m-K)		



Aavid Thermalloy

Heat Sinks