



## CHO-THERM® High Power Thermal Insulator Pads

### Features/Benefits...cont.

- 100% inspected for dielectric properties on every sheet
- PSA attachment option available
- UL recognized flammability ratings
- Meets RoHS specifications
- Extremely low NASA outgassing
- Proven through decades of use in demanding military and aerospace applications

### Typical Applications

- Power conversion equipment
- Power supplies and UPS
- Power semiconductors
- Automotive electronics
- Motor and engine controllers
- Televisions and consumer electronics

### Product Attributes

#### T500

- Best thermal performance
- Excellent dielectric properties

#### 1671

- Highest reliability in rigorous applications
- Proven in aerospace/defense applications

#### 1678

- Economically-priced
- Low thermal impedance

The optimum contact pressure range for CHO-THERM materials is 300-500 psi (2.07 x 10<sup>6</sup>-3.45 x 10<sup>6</sup>N/m<sup>2</sup>). Beyond this range, thermal performance gains are negligible.

### Handling Information

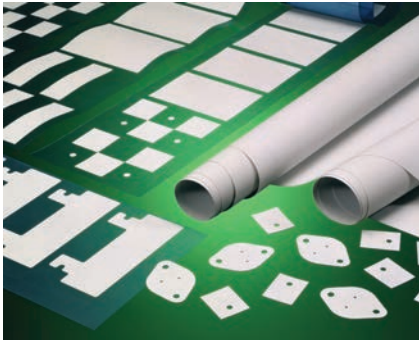
These products are defined by Chomerics as “articles” according to the following generally recognized regulatory definition for articles:

An article is a manufactured item “formed to a specific shape or design during manufacturing,” which has “end use functions” dependent upon its size and shape during end use and which has generally “no change of chemical composition during its end use.”

In addition:

- There is no known or anticipated exposure to hazardous materials/substances during routine and anticipated use of the product.
- The product’s shape, surface, and design is more relevant than its chemical composition.

These materials are not deemed by Chomerics to require an MSDS. For further questions, please contact Chomerics at 781-935-4850..



## Ordering Information

Thermal insulator pads are available in the following formats.  
Contact Chomerics for custom widths, part sizes, etc.

Sheets 8" X 10" or 17" X 21"

Custom die-cut parts on sheets, or as individual parts

Part Number:

**6W**

**XX**

**YYYY**

**ZZZZ**

W	XX	YYYY	ZZZZ
W = 0 Standard die-cut part	11 = without PSA 12 = with PSA one side 13 = PSA 2 Sides	YYYY = Custom 4- part alpha/numeric part number. Contact Chomerics.	ZZZZ = Material class (T500, 1671, or 1678)
W = 1 Sheet stock W = 2 Sheet stock with PSA 1 Side W = 3 Sheet stock with PSA 2 Sides	XX = material thickness in mils (1671 material available up to 60 mils)	0808 = 8" X 8" Sheet 0810 = 8" X 10" Sheet	
W = 9 Custom die-cut part	11 = without PSA 12 = with PSA one side	YYYYY = Custom Part Number. Contact Chomerics	

# How to Order Die-Cut CHO-THERM® Insulators

Standard die-cut parts are ordered using the following part number system. For custom parts, contact Chomerics.

Part Number:

**60**

**XX**

**YYYY**

**ZZZZ**

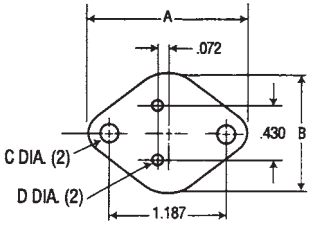
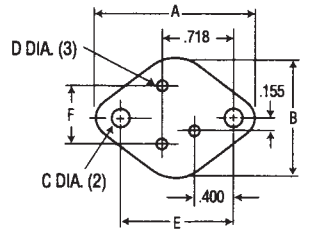
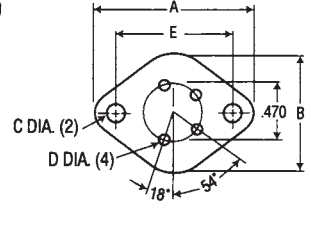
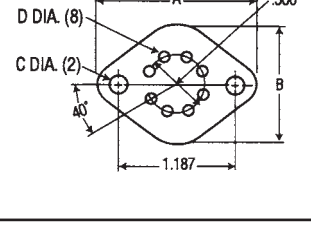
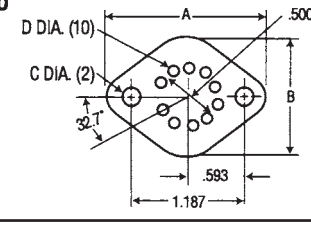
60 = standard die cut part

11 = No PSA

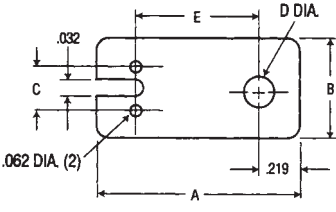
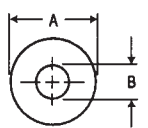

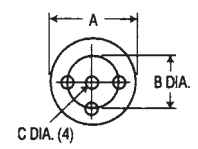
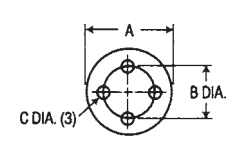
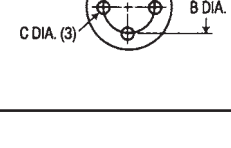
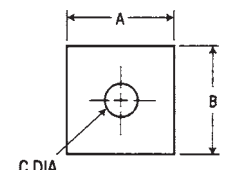
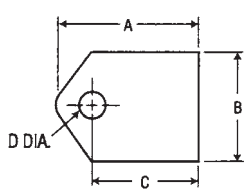
12 = PSA one side

Standard Configuration  
Drawing Number

CHO-THERM® Material  
Example: 1671, T500, etc.

Recommended Screw Torque	Configuration	Dimensions (inches)							Ordering Number
		A	B	C	D	E	F	G	
#4-40 5 in-lb #6-32 6 in-lb	<b>T0-3</b> 	1.563	1.050	0.140	0.080				WW-XX-D065-ZZZZ
		1.563	1.050	0.140	0.140				WW-XX-4305-ZZZZ
		1.593	1.100	0.156	0.070				WW-XX-4511-ZZZZ
		1.650	1.065	0.140	0.046				WW-XX-D370-ZZZZ
		1.650	1.140	0.122	0.062				WW-XX-D371-ZZZZ
		1.650	1.140	0.140	0.093				WW-XX-6875-ZZZZ
		1.650	1.140	0.165	0.062				WW-XX-D372-ZZZZ
		1.650	1.140	0.140	0.046				WW-XX-D373-ZZZZ
		1.650	1.140	0.165	-				WW-XX-D374-ZZZZ
		1.700	1.187	0.156	0.062				WW-XX-4996-ZZZZ
		1.730	1.250	0.156	0.062				WW-XX-5442-ZZZZ
		1.780	1.250	0.140	0.093				WW-XX-D375-ZZZZ
		1.780	1.250	0.165	0.094				WW-XX-D376-ZZZZ
		1.780	1.250	0.140	0.046				WW-XX-D377-ZZZZ
		2.07	1.56	0.122	0.062				WW-XX-D378-ZZZZ
#4-40 5 in-lb #6-32 6 in-lb	<b>3 LEAD T0-3</b> 	1.65	1.140	0.140	0.093	1.187	0.430		WW-XX-D379-ZZZZ
#4-40 5 in-lb #6-32 6 in-lb	<b>4 LEAD T0-3</b> 	1.560	1.050	0.158	0.080	1.170			WW-XX-D380-ZZZZ
		1.563	1.050	0.156	0.063	1.187			WW-XX-D381-ZZZZ
#4-40 5 in-lb #6-32 6 in-lb	<b>8 LEAD T0-3</b> 	1.650	1.187	0.156	0.60				WW-XX-D382-ZZZZ
#4-40 5 in-lb #6-32 6 in-lb	<b>10 LEAD T0-3</b> 	1.650	1.140	0.165	0.040				WW-XX-D383-ZZZZ

Recommended Screw Torque	Configuration	Dimensions (inches)							Ordering Number
		A	B	C	D	E	F	G	
#4-40 3 in-lb #6-32 4 in-lb	<b>TO-66</b> 	1.250	0.700	0.140	0.062				WW-XX-4353-ZZZZ WW-XX-5527-ZZZZ WW-XX-4997-ZZZZ WW-XX-D384-ZZZZ
		1.312	0.762	0.140	0.062				
		1.375	0.825	0.140	0.062				
		1.440	1.000	0.140	0.075				
#4-40 3 in-lb #6-32 4 in-lb	<b>3 LEAD TO-66</b> 	1.275	0.750	0.156	0.100	0.960			WW-XX-D385-ZZZZ
#4-40 3 in-lb #6-32 4 in-lb	<b>4 LEAD TO-66</b> 	1.312	0.762	0.140	0.062	0.960	0.200	0.100	WW-XX-D386-ZZZZ
#4-40 3 in-lb #6-32 4 in-lb	<b>9 LEAD TO-66</b> 	1.440	1.000	0.140	0.055	0.960	0.480	0.325	WW-XX-D387-ZZZZ
#4-40 3 in-lb #6-32 4 in-lb	<b>MULTI LEAD TO-66</b> 	1.35	0.800	0.140	0.400				WW-XX-D388-ZZZZ
#4-40 2 in-lb	<b>TO-220</b> 	0.437	0.312	0.140	0.093				WW-XX-D389-ZZZZ WW-XX-D390-ZZZZ WW-XX-D391-ZZZZ WW-XX-D392-ZZZZ WW-XX-5791-ZZZZ WW-XX-8302-ZZZZ WW-XX-D393-ZZZZ WW-XX-8531-ZZZZ WW-XX-6956-ZZZZ WW-XX-D394-ZZZZ WW-XX-D395-ZZZZ WW-XX-D396-ZZZZ WW-XX-D397-ZZZZ WW-XX-D398-ZZZZ WW-XX-D399-ZZZZ WW-XX-D400-ZZZZ WW-XX-D401-ZZZZ
		0.437	0.312	0.140	0.122				
		0.500	0.385	0.170	0.120				
		0.610	0.560	0.245	0.125				
		0.687	0.562	0.218	0.125				
		0.710	0.500	0.160	0.141				
		0.750	0.410	0.225	0.156				
		0.750	0.500	---	---				
		0.750	0.500	0.187	0.147				
		0.750	0.500	0.187	0.125				
		0.750	0.600	0.240	0.150				
		0.750	0.600	0.240	0.115				
		0.855	0.562	0.218	0.125				
		0.855	0.630	0.230	0.093				
		0.860	0.740	0.200	0.160				
		1.125	0.625	0.200	0.145				
1.410	0.810	0.355	0.147						
#4-40 2 in-lb		0.910	0.500	0.200	0.125	0.580	0.046	0.265	WW-XX-402-ZZZZ WW-XX-D403-ZZZZ
		0.983	0.750	0.432	0.156	0.665	0.101	0.217	

Recommended Screw Torque	Configuration	Dimensions (inches)							Ordering Number
		A	B	C	D	E	F	G	
#4-40 2 in-lb	<b>TYPE II TO-220</b> 	1.00	0.500	0.200	0.141	0.626			WW-XX-4969-ZZZZ
#10-32 2 in-lb #25-28 7 in-lb	DIODE WASHERS  DO-4   DO-5 	0.360 0.510 0.510 0.512 0.625	0.260 0.140 0.200 0.161 0.195						WW-XX-D404-ZZZZ WW-XX-D405-ZZZZ WW-XX-D406-ZZZZ WW-XX-D407-ZZZZ WW-XX-4659-ZZZZ  WW-XX-D408-ZZZZ WW-XX-D409-ZZZZ WW-XX-D410-ZZZZ WW-XX-D411-ZZZZ WW-XX-D412-ZZZZ WW-XX-D413-ZZZZ WW-XX-D414-ZZZZ WW-XX-4661-ZZZZ WW-XX-D415-ZZZZ WW-XX-D416-ZZZZ WW-XX-D417-ZZZZ WW-XX-D418-ZZZZ
	TO-36 	1.063	0.690	0.200					WW-XX-4306-ZZZZ
	TO-5 and TO-18 3 holes   4 holes 	0.250 0.360 0.390	0.100 0.200 0.200	0.036 0.040 0.040				WW-XX-D419-ZZZZ WW-XX-4374-ZZZZ WW-XX-D420-ZZZZ  WW-XX-D421-ZZZZ WW-XX-D422-ZZZZ WW-XX-D423-ZZZZ	
#4-40 2 in-lb	RECTIFIER 	0.100 1.125 1.250	0.100 1.125 1.250	0.187 0.140 0.200					WW-XX-D424-ZZZZ WW-XX-D425-ZZZZ WW-XX-D426-ZZZZ
#4-40 2 in-lb	TIP PACKAGE 	0.865 0.865 0.984 0.984 1.260	0.650 0.650 0.787 0.787 0.787	0.650 0.650 --- 0.780 0.984	0.140 0.140 --- 0.142 0.142				WW-XX-5792-ZZZZ WW-XX-D427-ZZZZ WW-XX-D428-ZZZZ WW-XX-D429-ZZZZ WW-XX-D430-ZZZZ

[1 in-lb = 1.152 kg-cm]

Excerpt From: THERM CAT 1001 EN March 2011 Rev H