



Heat Sinks

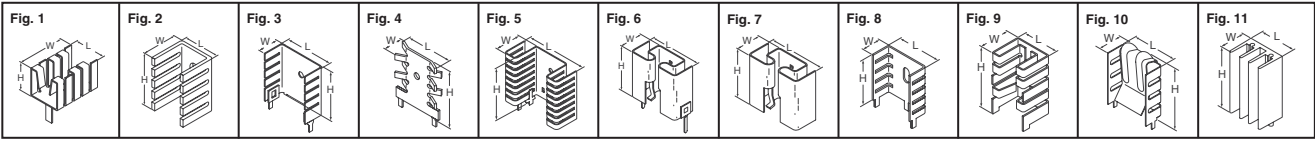


Fig.	Description	Dimensions – mm W x L x H	Mounting Type	Digi-Key Part No.	Price Each			Comair-Rotron Part No.
					1	10	25	
1	TO-220/TO-262; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	19.0 x 12.8 x 12.7	1 Solderable Tab	CR467-ND	.44	.41	.34	831402B00000
2	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	9.5 x 19.0 x 19.0	Device Leads	CR482-ND	.44	.41	—	821502B00000
3	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	6.4 x 13.3 x 19.1	1 Solderable Tab	CR489-ND†	.42	.39	.33	821002B04000
4	TO-220; Aluminum, 1.0mm thick with Black Anodized Finish	5.4 x 22.5 x 30.3	2 Solderable Tabs	CR481-ND	.58	.43	—	811102B00000
5	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	9.7 x 44.5 x 36.8	2 Solderable Tabs	CR503-ND‡	1.32	1.22	1.02	826002B05300
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	24.1 x 48.3 x 23.6	2 Solderable Tabs	CR507-ND‡	.79	.73	.62	825902B05300
6	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	2 Solderable Tabs	CR484-ND†	.48	.45	.37	833202B03300
	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	2 Solderable Step Tabs	CR486-ND†	.46	.43	.36	833202B03700
	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	2 Solderable Tabs	CR487-ND†	.57	.52	.44	833202B04800
7	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	Device Leads	CR485-ND	.34	.31	.26	833202B00000
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	12.7 x 25.4 x 30.0	2 Mechanical Tabs	CR494-ND†	.30	.28	.23	821902B00000
	TO-220; Copper, 1.2mm thick with Black Paint Finish	12.7 x 25.4 x 30.0	3 Solderable Tabs	CR497-ND†	1.31	—	—	8256BPT00000
8	TO-220; Copper, 1.2mm thick with Tin Plate Finish	12.7 x 25.4 x 30.0	3 Solderable Tabs	CR498-ND†	.94	.70	—	825600T00000
	TO-220/TO-262; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.8 x 19.0	1 Solderable Tab	CR465-ND†	.27	.24	.24	831302B00000
	TO-220/TO-262; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.8 x 19.0	1 Solderable Tab	CR468-ND†	.42	.39	.33	831502B03900
9	TO-220/TO-262; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.8 x 19.0	1 Solderable Step Tab	CR469-ND†	.46	.43	.36	831502B03700
	TO-220; Copper, 0.6mm thick with Tin Plate Finish, Integrated Spring	9.5 x 22.0 x 28.0	2 Solderable Tabs	CR506-ND	.75	.69	.58	833702T00000
11	TO-218/TO-220; Extruded Aluminum with Black Anodized Finish	16.0 x 16.5 x 50.8	2 Solderable Pins	CR517-ND‡	1.45	1.33	1.11	412320B02500

† See data sheets for specific Board Mount ‡ See data sheets for specific Component Mounting Hole Patterns



Thermal Products



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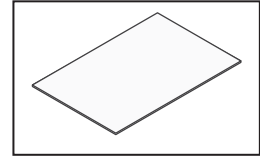
Tgon™ 800 Series Electrically and Thermally Conductive Interface Pads

Used where electrical isolation is not required, Tgon 800 is ideal where electrical contact and thermal transfer are desired. Its unique grain-oriented, plate-like structure provides a high thermal conductivity of 240 W/mk in the XY plane and 5 W/mk through the z-axis. Tgon 800

is supplied in 12" x 18" (305mm x 457mm) sheets. It is also available with proprietary pressure sensitive adhesive on one side. This adhesive coating is the thinnest available, minimizing any impact on thermal performance. **Features:** • High thermal conductivity • >98%

graphite • Low thermal resistance **Applications:** • Power conversion equipment • Power supplies • Large telecommunications switching hardware • Where electrical grounding is required with good thermal conductivity

Description	Thermal Resistance @ 100 psi (C-in ² /W)	Digi-Key Part No.	Price Each			Laird Technologies Part No.
			1	10	50	
No Adhesive						
805 Series; 0.005"(0.127mm) Thickness; 12" x 18" sheets	0.07	926-1008-ND	8.37	6.12	5.41	A10462-03
810 Series; 0.010"(0.254mm) Thickness; 12" x 18" sheets	0.10	926-1010-ND	9.68	7.08	6.26	A10463-01
820 Series; 0.020"(0.508mm) Thickness; 12" x 18" sheets	0.17	926-1012-ND	10.51	8.05	7.12	A10464-01
With Adhesive						
805 Series; 0.005"(0.127mm) Thickness; 12" x 18" sheets	0.07	926-1009-ND	11.18	8.56	7.58	A10462-02
810 Series; 0.010"(0.254mm) Thickness; 12" x 18" sheets	0.10	926-1011-ND	13.36	10.23	9.05	A10463-02
820 Series; 0.020"(0.508mm) Thickness; 12" x 18" sheets	0.17	926-1013-ND	16.05	12.29	10.87	A10464-02



T-grease™ 880, 1500 and 2500 Series Thermal Grease

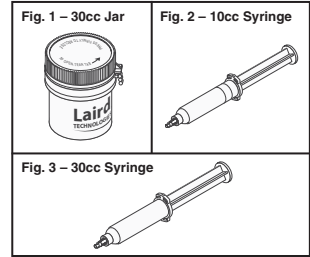
880 Series: T-grease 880 is a silicone based, high performance thermal grease designed to meet the thermal, reliability and price requirements of high end CPUs, GPUs and custom ASICs chips. **Features:** • Temperature Range: -40°C - 150°C (-40°F - 302°F) • Thermal Conductivity: 3.1 W/mk UL Flammability Rating: 94 VO File E180840

1500 Series: T-grease 1500 is environmentally safe, silicone-based thermal grease designed to solve overheating and reliability issues. **Features:** • Maximum Operating Temperature: 125°C • Thermal Conductivity: 1.2 W/mk

2500 Series: T-grease 2500 is a silicone-free thermal grease for use in high performance CPUs and GPUs and has a high thermal conductivity. **Features:** • Temperature Range: -55°C - 150°C • Thermal Conductivity: 3.8 W/mk UL Flammability Rating: 94 VO

Note: See Digi-Key website for soldering tips for syringes

Fig.	Description	Digi-Key Part No.	Price Each			Laird Technologies Part No.
			1	10	50	
1	T-grease 880 Series; 30cc Jar	926-1007-ND	18.94	15.07	13.51	A16241-03
	T-grease 1500 Series; 30cc Jar	926-1004-ND	13.61	10.42	9.22	A16241-01
	T-grease 2500 Series; 30cc Jar	926-1006-ND	17.97	13.76	12.18	A16241-02
2	T-grease 1500 Series; 10cc Syringe	926-1003-ND	35.50	28.24	25.32	A15423-02
	T-grease 2500 Series; 10cc Syringe	926-1001-ND	45.81	37.95	34.90	A14399-01
3	T-grease 1500 Series; 30cc Syringe	926-1000-ND	52.32	43.35	39.86	A15423-03
	T-grease 2500 Series; 30cc Syringe	926-1002-ND	56.33	46.67	42.92	A14399-02



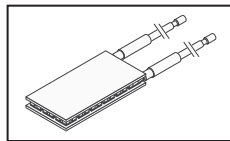
Ceramic Plate Series "Peltier" Modules

The Ceramic Plate (CP) Series of Thermoelectric Modules (TEMs) is considered "the standard" in the thermoelectric industry. This broad product line of high-performance and highly reliable TEMs is available in numerous heat pumping capacities, geometric shapes, and input power ranges.

Features:

- Precise temperature control
- Compact geometric sizes
- Reliable solid state operation
- No sound or vibration
- Environmentally friendly
- DC operation

Note: Size and type varies



Description	Outline L x W x H (mm)	Voltage max (V) @25°C	Qmax (W) @25°C	Digi-Key Part No.	Price Each			Laird Technologies Part No.
					1	10	50	
CP08,127,05	25.00 x 25.00 x 3.10	15.4	22.4	926-1014-ND	34.43	27.39	24.56	62910-510
CP08,127,06	24.64 x 24.64 x 3.40	14.4	18.1	926-1015-ND	31.80	25.30	22.68	66195-505
CP08,31,06	12.29 x 12.29 x 3.40	3.7	4.5	926-1016-ND	21.12	16.80	15.06	71035-505
CP08,63,06	24.56 x 12.29 x 3.40	7.6	9.0	926-1017-ND	35.27	28.06	25.16	71035-505
CP08,127,06	29.72 x 29.72 x 3.58	14.4	20.0	926-1018-ND	34.09	27.12	24.31	71212-502
CP10,127,05	29.72 x 29.72 x 3.20	14.4	34.3	926-1019-ND	19.84	15.79	14.16	56460-501
CP10,127,06	29.72 x 29.72 x 3.61	14.5	25.7	926-1020-ND	19.08	15.18	13.61	56310-503
CP10,127,08	29.72 x 29.72 x 3.99	14.5	21.4	926-1021-ND	28.75	22.87	20.50	63205-501
CP10,254,06	29.72 x 29.72 x 3.58	29.0	52.9	926-1022-ND	37.06	29.48	26.43	71012-506
CP10,31,05	15.00 x 15.00 x 3.20	3.8	8.2	926-1023-ND	18.01	13.79	12.20	430801-504
CP10,31,08	15.00 x 15.00 x 3.99	3.8	5.3	926-1024-ND	17.98	14.30	12.82	63604-511

Description	Outline L x W x H (mm)	Voltage max (V) @25°C	Qmax (W) @25°C	Digi-Key Part No.	Price Each			Laird Technologies Part No.
					1	10	50	
CP10,63,05	29.72 x 15.00 x 3.20	7.6	16.6	926-1025-ND	18.83	14.98	13.43	56430-501
CP10,63,06	29.72 x 15.00 x 3.58	7.6	12.7	926-1026-ND	18.41	14.64	13.13	43280-503
CP10,71,06	22.60 x 22.60 x 3.58	8.6	14.4	926-1027-ND	21.29	16.93	15.18	430436-504
CP12,161,04	39.88 x 39.88 x 3.20	18.4	79.2	926-1028-ND	25.87	20.58	18.45	430848-502
CP12,161,06	39.88 x 39.88 x 3.61	18.3	52.2	926-1029-ND	27.14	21.59	19.36	430848-504
CP14,127,045	39.88 x 39.88 x 3.33	14.5	72.0	926-1030-ND	22.13	17.61	15.79	56910-502
CP14,127,06	39.88 x 39.88 x 3.81	14.5	51.4	926-1031-ND	21.71	17.27	15.49	56760-505
CP14,127,10	39.88 x 39.88 x 4.70	14.4	33.4	926-1032-ND	29.94	23.81	21.35	56610-502
CP14,31,10	19.81 x 19.81 x 4.70	3.8	8.2	926-1033-ND	25.69	20.44	18.33	56550-501
CP14,35,045	29.72 x 14.86 x 3.33	4.0	20.4	926-1034-ND	29.25	23.27	20.87	56860-501
CP14,7,10	9.50 x 9.50 x 4.70	0.7	1.8	926-1035-ND	27.84	21.99	19.72	56500-501
CP14,71,045	29.72 x 29.72 x 3.33	8.0	41.3	926-1036-ND	18.83	14.98	13.43	56890-503
CP14,71,06	29.72 x 29.72 x 3.81	8.1	28.7	926-1037-ND	19.33	15.38	13.79	430705-503
CP14,71,10	29.72 x 29.72 x 4.70	8.6	18.7	926-1038-ND	21.03	16.73	15.00	56590-501
CP2,127,06	62.00 x 62.00 x 4.57	14.5	122.3	926-1039-ND	49.21	40.77	37.49	66100-502
CP2,127,10	62.00 x 62.00 x 5.59	14.5	79.8	926-1040-ND	50.51	41.84	38.48	64979-501
CP2,31,06	29.72 x 29.72 x 4.57	3.5	29.3	926-1041-ND	18.83	14.98	13.43	57125-501
CP2,31,10	29.72 x 29.72 x 5.59	3.8	18.8	926-1042-ND	20.10	15.99	14.34	56995-501
CP2,71,06	43.94 x 43.94 x 4.57	8.1	68.4	926-1043-ND	25.95	20.64	18.51	57180-501

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