

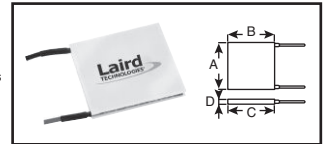
LAIRD TECHNOLOGIES Thermoelectric Modules



This product is RoHS compliant.

THERMOELECTRIC 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. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide ceramics, the CP Series is designed for higher current and large heat-pumping applications. For all CP Series modules, wire is stranded, 114mm (4.5 in.) long and PVC insulated.



Benefits:

- Precise temperature control with tolerances $\pm 0.1^{\circ}\text{C}$ achieved under steady state conditions
- DC operation with reverse polarity for heating and cooling in thermal cycling applications
- Rapid cool down below ambient temperatures
- Tight geometric space constraints and low weight requirements
- Power generation from waste heat—patented ThermoTECTM is operational up to 225°C
- Reliable solid-state operation with no sound or vibration (lifetimes of more than 200,000 hours)
- Virtually no electrical noise
- Environmentally friendly, no CFC refrigerants
- Low maintenance, easy to repair

Applications:

- Consumer Electronics
- Medical
- Food & Beverage
- Aerospace
- Defense



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Laird Thermal Part No.	Description	Th=25°C				No. of Couples	Dimensions: mm				Price Each			
			TMAX (°C)	QMAX (Watts)	IMAX (Amps)	VMAX (Volts)		A	B	C	D	1	10	50	100
CP Series - Ceramic Plate															
739-62910-510	62910-510	CP08,127,05,L1,W4.5	67	22.4	2.6	15.4	127	25	25	25	3.1	40.79	36.71	34.14	31.75
739-66195-505	66195-505	CP08,127,06,L1,W4.5	67	18.1	2.1	15.4	127	25	25	25	3.4	45.35	41.72	38.38	35.32
739-71035-505	71035-505	CP08,31,06,L1,W4.5	67	4.4	2.1	3.8	31	12	12	12	3.4	24.05	21.65	20.13	18.72
739-71036-505	71036-505	CP08,63,06,L1,W4.5	67	9.0	2.1	7.6	63	12	25	12	3.4	44.07	39.66	36.89	34.30
739-430446-503	430446-503	CP08,127,05,L1,RT,W4.5	67	22.6	2.6A	14.4	127	25	25	25	3.1	45.60	43.32	41.14	39.10
739-66195-504	66195-504	CP08,127,06,L1,RT,W4.5	67	18.1	2.1A	14.4	127	25	25	25	3.4	46.10	43.79	41.60	39.52
739-43240-501	43240-501	CP10,17,06,L,W4.5	67	3.5	3.0	1.9	17	12	12	12	3.58	28.49	27.07	25.71	24.43
739-56460-501	56460-501	CP10,127,05,L1,W4.5	67	33.4	3.9	15.4	127	30	30	30	3.2	24.57	22.60	21.02	19.55
739-43310-502	43310-502	CP10,127,06,L1,W4.5	67	25.7	3.0	15.4	127	30	30	30	3.6	23.96	21.56	20.05	18.65
739-63202-501	63202-501	CP10,127,08,L1,W4.5	67	21.4	2.5	15.4	127	30	30	30	4.0	45.37	40.83	37.97	35.32
739-71012-506	71012-506	CP10,254,06,L1,W4.5	67	51.4	3.0	30.8	254	60	30	30	3.6	46.28	41.66	38.74	36.02
739-430801-504	430801-504	CP10,31,05,L1,W4.5	67	8.2	3.9	3.8	31	15	15	15	3.2	23.30	21.68	20.15	18.74
739-56430-501	56430-501	CP10,63,05,L1,W4.5	67	16.6	3.9	7.6	63	15	30	15	3.2	26.25	24.41	22.70	21.12
739-43280-503	43280-503	CP10,63,06,L1,W4.5	67	12.7	3.0	7.6	63	15	30	15	3.6	22.78	21.19	19.71	18.33
739-44440-501	44440-501	CP10,71,05,L,W4.5	67	19	3.9	7.9	71	22.6	22.6	22.6	3.2	37.84	35.95	34.15	32.44
739-56460-500	56460-500	CP10,127,05,L1,EP,W4.5	67	34.3	3.9A	14.4	127	30	30	30	3.2	29.90	28.41	26.98	25.63
739-56310-505	56310-505	CP10,127,06,L1,RT,W4.5	68	25.7	3.0A	14.5	127	30	30	30	3.6	28.80	27.36	25.98	24.68
739-430801-501	430801-501	CP10,31,05,L,EP,W4.5	67	8.2	3.9A	3.8	31	15	15	15	3.2	25.10	23.84	22.65	21.52
739-430848-509	430848-509	CP12,161,04,L1,RT,W4.5	67	79.2	7.3A	18.4	161	40	40	40	3.3	38.00	36.10	34.29	32.58
739-430082-502	430082-502	CP14,127,045,L1,EP,W4.5	67	72.0	8.5A	14.5	127	40	40	40	3.3	33.00	31.35	29.79	28.28
739-66101-500	66101-500	CP14,127,045,L1,RT,W4.5	67	72.0	8.5A	14.5	127	40	40	40	3.3	33.00	31.35	29.79	28.28
739-430078-525	430078-525	CP14,127,06,L1,EP,W4.5	67	51.4	6.0A	14.5	127	40	40	40	3.8	32.40	30.78	29.23	27.78
739-56760-500	56760-500	CP14,127,06,L1,RT,W4.5	67	51.4	6.0A	14.5	127	40	40	40	3.8	32.40	30.78	29.23	27.78
739-56610-510	56610-510	CP14,127,10,L1,RT,W4.5	67	33.4	3.9A	14.4	127	40	40	40	4.7	43.50	41.31	39.25	37.28
739-430294-502	430294-502	CP14,35,045,L,EP,W4.5	68	20.4	8.7A	4.0	35	15	15	15	3.3	41.95	39.50	37.65	35.00
739-430032-502	430032-502	CP14,71,045,L1,RT,W4.5	67	41.3	8.5A	8.0	71	30	30	30	4.7	28.50	27.08	25.70	24.43
739-430705-504	430705-504	CP14,71,06,L1,EP,W6	68	28.7	6.0A	8.1	71	30	30	30	3.8	32.10	30.50	28.96	27.51
739-56740-502	56740-502	CP14,71,06,L1,RT,W4.5	68	28.7	6.0A	8.1	71	30	30	30	3.8	29.20	27.74	26.34	25.03
739-70200-504	70200-504	CP14,71,10,L1,EP,W4.5	67	18.7	3.9A	8.6	71	30	30	30	4.7	31.50	29.93	28.41	27.00
739-70200-501	70200-501	CP14,71,10,L1,RT,W4.5	67	18.7	3.9A	8.6	71	30	30	30	4.7	31.50	29.93	28.41	27.00
739-44910-501	44910-501	CP14,127,045,L1,W4.5	67	72.0	8.5	15.4	127	40	40	40	3.3	28.62	26.36	24.51	22.80
739-56760-505	56760-505	CP14,127,06,L1,W4.5	67	51.4	6.0	15.4	127	40	40	40	3.8	25.60	23.81	22.14	20.59
739-56610-502	56610-502	CP14,127,10,L1,W4.5	68	33.4	3.9	15.4	127	40	40	40	4.7	35.30	32.83	30.20	27.18
739-44550-501	44550-501	CP14,31,10,L1,W4.5	68	8.2	3.9	3.8	31	20	20	20	4.7	30.53	27.48	25.55	23.76
739-56860-501	56860-501	CP14,35,045,L1,W4.5	65	19.0	8.5	4.2	35	15	30	15	3.3	36.11	32.50	30.22	28.11
739-56500-501	56500-501	CP14,7,10,L1,W4.5	68	1.8	3.9	0.8	7	9.5	9.5	9.5	4.7	39.08	35.18	32.72	30.42
739-44530-501	44530-501	CP14,17,10,L,W4.5	68	4.5	3.9	1.9	-	14.9	14.9	-	-	26.62	25.29	24.02	22.82
739-44740-501	44740-501	CP14,71,06,L1,W4.5	67	28.7	6.0	8.6	71	30	30	30	3.8	25.02	22.52	20.94	19.48
739-56590-502	56590-502	CP14,71,10,L1,W4.5	68	18.7	3.9	8.6	71	30	30	30	4.7	30.03	27.91	25.97	24.16
739-430122-507	430122-507	CP2,127,06,L1,EP,W4.5	67	122.3	14.3A	14.5	127	62	62	62	4.6	77.10	73.24	69.58	66.09
739-430122-520	430122-520	CP2,127,06,L1,RT,W4.5	67	122.3	14.3A	14.5	127	62	62	62	4.6	77.10	73.24	69.58	66.09
739-64975-503	64975-503	CP2,127,10,L,EP,W4.5	67	79.8	9.3A	14.5	127	62	62	62	5.6	79.10	75.15	71.38	67.82
739-64975-502	64975-502	CP2,127,10,L,RT,W4.5	67	79.8	9.3A	14.5	127	62	62	62	5.6	79.10	75.15	71.38	67.82
739-66100-501	66100-501	CP2,127,06,L1,W4.5	67	120	14.0	15.4	127	62	62	62	4.6	70.24	63.21	58.78	56.96
739-64979-501	64979-501	CP2,127,10,L1,W4.5	68	79.8	9.3	14.5	127	62	62	62	5.6	69.30	63.75	59.29	55.14
739-430084-505	430084-505	CP2,31,06,L1,W4.5	67	29.3	14.0	3.5	31	30	30	30	4.6	23.42	21.07	19.60	18.23
739-56995-501	56995-501	CP2,31,10,L1,W4.5	68	18.8	9.0	3.8	31	30	30	30	5.6	28.65	26.65	24.78	23.17
739-57040-500	57040-500	CP2,71,10,L1,W4.5	67	44.2	9.0	7.9	71	43.9	43.9	43.9	5.6	77.44	73.57	69.89	66.40
739-71035-506	71035-506	CP08,31,06,L,EP,W4.5	67	4.5	2.1A	3.7	31	12	12	12	3.4	31.60	30.02	28.51	27.09
739-71212-502	71212-502	CP085,127,06,L1,W4.5	66	20.2	2.7	15.3	127	30	30	30	3.6	78.78	63.01	60.03	57.16
739-56310-503	56310-503	CP10,127,06,L1,W4.5	67	25.7	3.0	15.4	127	30	30	30	3.6	24.75	23.01	21.40	19.90
739-63205-501	63205-501	CP10,127,08,L1,W4.5	67	21.4	2.5	15.4	127	30	30	30	4.0	40.93	38.06	35.41	32.93
739-63604-511	63604-511	CP10,31,08,L1,W4.5	67	5.3	2.50	3.8	31	15	15	15	4.0	23.32	21.21	19.32	17.57
739-430436-504	430436-504	CP10,71,06,L,W4.5	67	14.4	3.0	8.6	71	23	23	23	3.6	27.61	25.95	24.40	22.93
739-430848-502	430848-502	CP12,161,04,L1,W4.5	67	69.3	7.3	18.3	161	40	40	40	3.3	33.55	31.19	29.01	26.98
739-430848-504	430848-504	CP12,161,06,L1,W4.5	67	52.2	4.8	18.3	161	39.9	39.9	39.9	3.6	40.48	37.65	35.00	32.55
739-56910-502	56910-502	CP14,127,045,L1,W4.5	65	72.0	8.5	15.4	127	40	40	40	3.3	28.71	26.12	23.77	22.10
739-56550-501	56550-501	CP14,31,10,L1,W4.5	68	8.2	3.9	3.75	31	20	20	20	4.7	35.09	32.62	30.33	28.22
739-56890-503	56890-503	CP14,71,045,L1,W4.5	65	38.5	8.5	8.6	71	30	30	30	3.3	25.60	23.55	21.67	20.58
739-430705-503	430705-503	CP14,71,06,L1,W4.5	67	28.7	6.0	8.6	71	30	30	30	3.8	25.08	23.32	21.69	20.17