

## Peltier Modules

CUI Peltier Modules provide a convenient and reliable cooling solution. Their compact size make them ideal for applications that are size or weight limited and in applications where heat sinks, compressors or fans wouldn't be feasible. They can be operated in any orientation, do not require the use of chlorofluorocarbons and have no moving parts so they are virtually maintenance free. They are great for use in many demanding industries such as medical, laboratory, aerospace, semiconductor, telecom, industrial, and consumer products.

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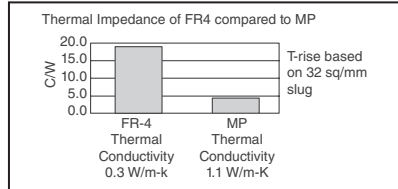
Maximum Current (A)	Maximum Voltage (V)	Resistance ( $\Omega \pm 10\%$ )	(Th = 27°C)		Dimensions - mm			Digi-Key Part No.	Price Each			CUI Part No.
			Qmax (W)	Delta Tmax	A	B	C		1	10	100	
2.0	3.8	1.6	3.7	66°C	15	5.1	15	102-1663-ND	11.02	9.92	8.27	CP20151
	8.6	3.7	8.5		20	5.1	20	102-1664-ND	11.88	10.69	8.91	CP20251
	15.4	6.7	15.2		30	5.1	30	102-1665-ND	11.65	10.49	8.74	CP20351
3.0	3.8	1.0	6.5	66°C	15	3.8	15	102-1666-ND	11.02	9.92	8.27	CP30138
	8.6	2.3	15		20	3.8	20	102-1667-ND	11.88	10.69	8.91	CP30238
	15.4	4.0	27		30	3.8	30	102-1668-ND	11.57	10.42	8.69	CP30338
4.0	3.8	0.8	8.1	66°C	15	3.6	15	102-1669-ND	11.02	9.92	8.27	CP40136
	8.6	2.0	18.7		20	3.6	20	102-1670-ND	11.88	10.69	8.91	CP40236
	15.4	3.5	33.4		30	3.6	30	102-1671-ND	11.21	10.10	8.41	CP40336
6.0	3.8	0.5	12.2	66°C	15	3.3	15	102-1672-ND	11.02	9.92	8.27	CP60133
	8.6	1.2	27.9		20	3.3	20	102-1673-ND	11.88	10.69	8.91	CP60233
	15.4	2.2	50.5		30	3.3	30	102-1674-ND	11.21	10.10	8.41	CP60333
	2.1	0.29	7.1	68°C	15	4.0	15	102-1675-ND	9.83	8.85	7.38	CP60140
	3.8	0.53	13		20	4.0	20	102-1676-ND	10.82	9.74	8.12	CP60240
	8.6	1.21	29		30	4.0	30	102-1677-ND	11.65	10.49	8.74	CP60340
8.5	15.4	2.17	53	68°C	40	4.0	40	102-1678-ND	11.49	10.34	8.62	CP60440
	2.1	0.2	10		15	3.8	15	102-1679-ND	10.51	9.46	7.89	CP85138
	3.8	0.4	18		20	3.8	20	102-1680-ND	11.83	10.65	8.88	CP85238
	8.6	0.9	42		30	3.8	30	102-1681-ND	12.25	11.03	9.20	CP85338
	15.4	1.5	75		40	3.8	40	102-1682-ND	12.94	11.65	9.71	CP85438



## Thermal Clad LED IMS® Boards



Bergquist offers a family of standard thermally conductive insulated metal substrate (IMS) circuit boards specifically for LED applications which replace conventional FR-4 PCBs. Better thermal management allows more forward current to be applied to the LED, while still maintaining desired die temperatures, which means more light and possibly reducing the number of LEDs required to achieve the desired light output. Star or square substrates are available in single, strip or array configurations. Choose from different LED footprints to give you the freedom to select the LED component's color, brightness and power that best suits your needs.



### Specifications:

- Base metal: 1.57mm (0.062") aluminum 5052
- Thermally conductive Dielectric: .076mm (3 mil) MP
- Copper Circuit Foil: 35µm (1 oz. copper circuit foil)
- Surface Finish: White solder mask, Pb-free HASL solder pads

Dimensions in mm

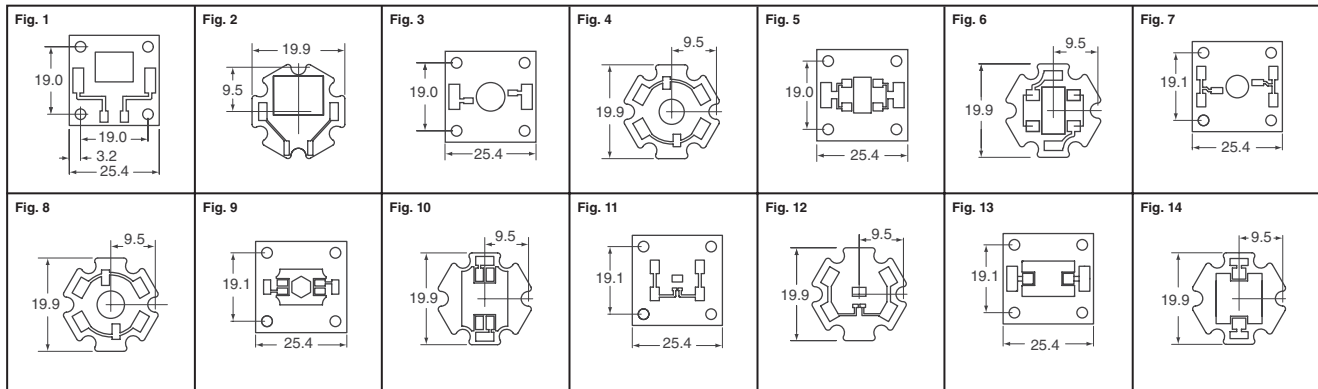


Fig.	Footprint Type	Digi-Key Part No.	Price Each				Bergquist Part No.
			1	10	100	500	
1	Avago Moonstone™ Emitter	BER258-ND	1.17	1.05	.83	.72	803111
2		BER265-ND	.73	.66	.53	.46	803121
3	Lite-On® LOPL	BER259-ND	1.17	1.05	.83	.72	803113
4		BER266-ND	.73	.66	.53	.46	803123
5	Lumex SML-LX	BER260-ND	1.17	1.05	.83	.72	803114
6		BER267-ND	.73	.66	.53	.46	803124
7	Lumileds™ Luxeon® I, III, and V	BER261-ND	1.17	1.05	.83	.72	803115
8		BER268-ND	.73	.66	.53	.46	803125
9	Lumileds Luxeon K2	BER262-ND	1.17	1.05	.83	.72	803116
10		BER269-ND	.73	.66	.53	.46	803126
11	Lumileds Luxeon Rebel	BER263-ND	1.17	1.05	.83	.72	803117
12		BER270-ND	.73	.66	.53	.46	803127
13	Osram Golden Dragon®	BER264-ND	1.17	1.05	.83	.72	803118
14		BER271-ND	.73	.66	.53	.46	803128

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