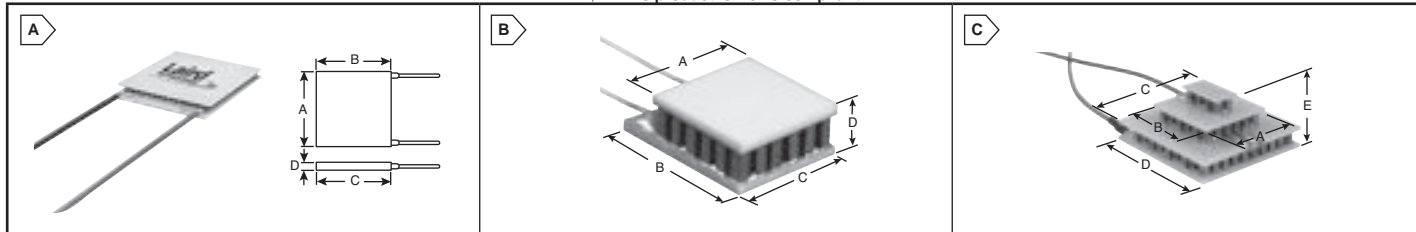


LAIRD TECHNOLOGIES Thermoelectric Modules



RoHS Compliant This product is RoHS compliant.



ULTRATEC™ SERIES

Features: • High Heat Pump Density • Precise Temperature Control • Reliable Solid State Operation • No Sound or Vibration • DC Operation For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Laird Thermal Part No.	Fig.	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	
UT Series - High Power															
739-430744-511	430744-511	A	UT8,12,F2,3030,TA,W6	69	69	7.9	14.4	127	30	30	34	2.6	57.00	42.95	
739-430745-505	430745-505	A	UT8,12,F2,2525,11,RT,W6	69	69.0	7.9A	14.4	12	25	25	27	1.9	81.10	69.53	
739-430745-510	430745-510	A	UT8,12,F2,2525,TA,W6	69	69	7.9	14.4	127	25	24	27	1.9	81.84	67.97	
739-430759-509	430759-509	A	UT11,12,F2,3030,TA,W6	69	95	11	14.4	127	30	30	34	2.4	52.10	39.25	
739-430764-505	430764-505	A	UT15,12,F2,4040,TA,W6	69	126	14.6	14.4	127	40	40	44	2.8	49.80	37.52	
739-430856-500	430856-500	A	UT15,200,F2,4040,TA,W6	68	236.6	15.4	25.0	-	40	40	44	3.3	101.75	84.51	
739-430854-500	430854-500	A	UT8,200,F2,4040,TA,W6	71	127.5	8.5	24.9	-	40	40	44	3.81	96.58	80.22	
739-430857-500	430857-500	A	UT15,288,F2,5252,TA,W6	68	340.6	15.4	36.0	-	52	52	56	3.3	164.67	136.77	
739-430855-500	430855-500	A	UT8,288,F2,5252,TA,W6	71	182.6	8.5	35.9	-	52	52	56	3.81	159.50	132.48	
739-430856-501	430856-501	A	UT15,200,F2,4040,TA,RT,W6	68	236.6	15.4A	25.0	200	40	40	44	3.8	100.10	85.82	
739-430857-501	430857-501	A	UT15,288,F2,5252,TA,RT,W6	68	340.6	15.4A	36.0	288	52	52	56	3.3	160.10	137.27	

ZT SERIES

Features: • High temperature differential • Precise temperature control • Reliable solid state operation • No sound or vibration For quantities greater than listed, call for quote.

ZT Series - High Perf Modules														
MOUSER STOCK NO.	Laird Thermal Part No.	Fig.	Description	TMAX (°C)	QMAX (Watts)	IMAX (Amps)	VMAX (Volts)	No. of Couples	A	B	C	D	Price Each	10
739-7940002-601	7940002-601	A	ZT4,12,F1,3030,TA,W8	74	35	3.9	16.4	-	30	30	3.61	0.142	42.60	31.05
739-7950004-601	7950004-601	A	ZT4,12,F1,4040,TA,W8	74	37	3.9	15.4	-	40	40	4.8	0.189	47.08	37.44
739-7940001-601	7940001-601	A	ZT4,7,F1,2020,TA,W8	74	18.2	3.9	8.8	-	20	20	3.61	0.142	47.80	35.22
739-7945002-601	7945002-601	A	ZT5,16,F1,4040,TA,W8	74	62.3	5	20	-	40	40	2.71	0.146	49.20	37.06
739-7950003-601	7950003-601	A	ZT6,12,F1,4040,TA,W8	74	55	6	15.4	-	40	40	3.91	0.154	52.30	39.83
739-7950001-601	7950001-601	A	ZT6,7,F1,3030,TA,W8	74	31	6	8.6	-	30	30	3.91	0.154	45.20	33.67
739-7945001-601	7945001-601	A	ZT7,16,F1,4040,TA,W8	72	83.9	6.7	20	-	40	40	3.3	0.13	49.70	36.23
739-7950002-601	7950002-601	A	ZT8,12,F1,4040,TA,W8	72	77	8.5	15.4	-	40	40	3.81	0.15	54.40	39.65

THERMOELECTRIC MODULES - OPTOTEC SERIES

Features: • Miniature geometric sizes • Reliable solid state operation • DC operation • Precise temperature control • No sound or vibration • RoHS compliant RoHS Compliant

Applications: • Laser diodes • Infrared (IR) sensors • Crystal oscillators • CCD cameras • Pump lasers • Optical transceivers For quantities greater than listed, call for quote.

OptoTec Series - Mini														
MOUSER STOCK NO.	Laird Thermal Part No.	Fig.	Description	TMAX (°C)	QMAX (Watts)	IMAX (Amps)	VMAX (Volts)	No. of Couples	A	B	C	D	Price Each	10
739-430290-501	430290-501	B	OT08,04,F0,0203,11,W2.25	67	0.2	0.8	0.5	4	1.8	3.4	3.4	0.096	46.80	35.26
739-45850-502	45850-502	B	OT08,08,F0,0305,11,W2.25	67	0.44	0.8	0.9	8	3.3	3.3	4.9	0.096	37.40	29.93
739-430002-501	430002-501	B	OT08,18,F0,0505,11,W2.25	67	0.97	0.8	2.2	18	5.0	5.0	6.7	0.096	34.80	27.09
739-430828-501	430828-501	B	OT08,18,F2,0505,11,W2.25	67	0.97	0.8	2.2	18	5.0	5.0	6.7	0.096	39.90	28.95
739-430005-501	430005-501	B	OT08,32,F0,0707,11,W2.25	67	1.7	0.8	3.7	32	6.6	6.6	8.3	0.096	43.20	32.58
739-430009-501	430009-501	B	OT08,66,F0,1009,11,W2.25	67	3.6	0.8	7.6	66	9.8	8.9	11.4	0.096	51.08	37.06
739-430001-501	430001-501	B	OT12,12,F0,0406,11,W2.25	67	0.97	1.2	1.5	12	4.2	6.2	6.2	0.096	45.00	33.91
739-430003-505	430003-505	B	OT12,18,F0,0606,11,W2.25	67	1.5	1.2	2.1	18	6.2	6.2	8.3	0.096	43.80	33.01
739-430779-501	430779-501	B	OT12,18,F2A,0606,11,W2.25	67	1.5	1.2	2.1	18	6.0	6.2	7.2	0.096	39.90	30.06
739-430011-501	430011-501	B	OT12,66,F0,1211,11,W2.25	67	5.4	1.2	7.5	66	12.3	11.3	14.4	0.096	60.70	45.73
739-430007-509	430007-509	B	OT15,30,F2A,0610,11,W2.25	67	3	1.5	3.4	30	6.2	10.3	12.3	0.096	34.80	26.22
739-430013-501	430013-501	B	OT15,66,F0,1211,11,W2.25	67	6.8	1.5	7.5	66	12.3	11.3	14.4	0.096	57.70	43.46
739-430263-501	430263-501	B	OT20,12,F0,0406,11,W2.25	67	1.6	2.0	1.4	12	4.1	6.1	6.1	0.096	43.80	33.00
739-430264-503	430264-503	B	OT20,30,F2A,0610,11,W2.25	67	4	2.0	3.6	30	6.2	10.3	12.3	0.096	36.20	29.11
739-430010-501	430010-501	B	OT20,31,F1,0808,11,W2.25	67	4.2	2.0	3.5	31	8.1	8.1	8.1	0.096	48.80	36.77
739-430278-507	430278-507	B	OT20,32,F0,0808,11,W2.25	67	4	2.0	3.7	32	8.1	8.1	10.16	0.096	47.10	36.27
739-430265-501	430265-501	B	OT20,66,F0,1211,11,W2.25	67	9.9	2.0	7	66	12.19	11.18	14.22	0.096	74.00	55.76
739-430701-501	430701-501	B	ET19,35,F1N,0612,11,W2.25	67	4.65	1.9	4	35	6.0	12.2	12.2	0.096	66.30	49.96
739-430581-502	430581-502	B	ET20,30,F2A,0610,11,W2.25	67	4.1	2.0	3.4	30	6.2	10.3	12.3	0.096	41.30	31.79
739-430549-501	430549-501	B	ET20,31,F1A,0909,11,W2.25	67	4.2	2.0	3.5	31	8.79	8.79	8.79	0.096	64.19	54.32
739-430037-501	430037-501	B	HOT12,18,F2A,0606,11,W2.25	64	1.5	1.2	2.1	18	6.0	6.2	7.1	0.096	47.40	38.12
739-430104-501	430104-501	B	HOT12,65,F2A,1312,11,W2.25	67	5.31	1.2	7.4	65	13.16	12.14	13.16	0.096	56.30	45.28
739-430039-501	430039-501	B	HOT20,31,F2A,0909,11,W2.25	64	4.2	2.0	3.5	31	8.79	8.8	10.97	0.096	47.00	37.80
739-430040-501	430040-501	B	HOT20,65,F2A,1312,11,W2.25	67	8.79	2.0	7.4	65	13.16	12.14	13.16	0.096	64.50	51.87

THERMOELECTRIC MODULES - MS SERIES

Features: • High temperature differential • Reliable solid state operation • DC operation • Precise temperature control • Environmentally friendly • RoHS compliant RoHS Compliant

Applications: • CCD cameras • Calibration equipment • Gas analyzers • Electron microscope • Photonics laser systems • Infrared (IR) Sensors • Guidance Systems For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Laird Thermal Part No.	Fig.	Description	Th=25°C				Dimensions: (mm)					Price Each		
				TMAX (°C)	QMAX (Watts)	IMAX (Amps)	VMAX (Volts)	A	B	C	D	E	1	10	
MS Series - Multistage TEM															
739-9320001-301	9320001-301	C	MS2,010,06,06,11,11,11,W2	92	0.35	1.1	0.9	3.2	3.2	3.9	3.9	4.2	98.42	75.00	
739-9320002-301	9320002-301	C	MS2,024,06,06,11,11,11,W2	92	0.81	1.1	2.2	4.1	4.1	6.1	6.1	4.6	154.56	112.15	
739-9340001-301	9340001-301	C	MS2,049,10,10,15,15,11,W8	87	3.4	2.1	3.8	11.5	11.5	15	15	6.6	93.15	71.73	
739-9350001-301	9350001-301	C	MS2,049,14,14,15,15,11,W8	87	6.6	4	3.8	15	15	20	20	7.2	115.18	91.65	
739-9340002-301	9340002-301	C	MS2,107,10,10,12,12,11,W8	89	9.2	3	9.2	22.6	22.6	22.6	22.6	6.25	111.17	88.45	
739-9340003-301	9340003-301	C	MS2,190,10,10,12,12,11,W8	87	16.4	2.8	15.7	30	30	30	30	6.5	144.95	115.33	
739-9350006-301	9350006-301	C	MS2,192,14,20,11,18,11,W8	87	39.9	6.7	15.6	40	40	40	40	8.1	134.42	111.65	
739-9350007-301	9350007-301	C	MS2,192,14,20,15,25,11,W8	88	27.3	4.4	16	40	40	40	40	8.1	144.43	119.97	
739-9360001-301	9360001-301	C	MS3,070,20,25,11,W8	118	3	6.5	6.5	14	8	36	36	16	290.98	219.27	
739-9350004-301	9350004-301	C	MS3,119,14,15,11,W8	100	7.5	3.9	8	15	15	30	30	10.4	190.28	143.40	
739-9360002-301	9360002-301	C	MS3,119,20,15,11,W8	100	14.9	8	8.2	22	22	44	44	12.9	269.73	203.25	
739-9340004-301	9340004-301	C	MS3,231,10,15,11,W8	104	6.9	1.9	15.5	15	15	130	30	9.5	196.34	156.23	
739-9350005-301	9350005-301	C	MS4,115,14,15,11,W8	122	2.6	3.5	7.6	14.5	4.5	33	24	13.8	362.80	273.39	
739-9340005-301	9340005-301	C	MS4,129,10,15,11,W8	115	1.9	1.8	8.2	8	8	23	23	12.5	295.03	232.23	
739-9340006-301	9340006-301	C	MS5,257,10,15,11,W8	123	2	1.5	14.5	8	8	30	30	15.4	370.05	310.58	