



S&PF MODUL THERMOELECTRIC ELEMENTS

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Single-Stage Thermoelectric Modules

Type	I _{max} , Amps	Hot side Th = 27°C			Dimensions, mm				Graphs
		Q _{max} , Watts	V _{max} , Volts	ΔT _{max} , K (min)	A	B	C	D	
MT0.44-1.4-127	1.5	13	14.7	68	32	27	-	3.6	
MT0.81-2.0-127	2.0	18	14.7	71	56	35	-	4.0	
MT1-2.0-7	2.5	1.2	0.8	70	8	8	-	4.0	
MT1-2.0-17	2.5	3,0	2,0	70	12	12	-	4.0	
MT1-2.0-31	2.5	5.5	3.6	70	15	15	-	4.0	
MT1-2.0-63	2.5	11.1	7.3	70	15	30	-	4.0	
MT1-2.0-71	2.5	12.6	8.3	70	23	23	-	4.0	
MT1-2.0-127	2.5	22.5	14.7	70	30	30	-	4.0	
MT1-2.0-127D	2.5	22.5	14.7	70	30	30	34	4.4	
MT1-1.6-7	3.0	1.5	0.8	70	8	8	-	3.6	
MT1-1.6-17	3.0	3.7	2.0	70	12	12	-	3.6	
MT1-1.6-31	3.0	6.7	3.6	70	15	15	-	3.6	
MT1-1.6-63	3.0	13.7	7.3	70	15	30	-	3.6	
MT1-1.6-71	3.0	15.4	8.3	70	23	23	-	3.6	
MT2-3.4-71	3.0	26.8	8.3	70	40	40	-	5.7	
MT1-1.6-127	3.0	27.4	14.7	70	30	30	-	3.6	
MT1-1.6-127D	3.0	27.4	14.7	70	30	30	34	3.6	
MT1-1.6-143	3.0	31	16.5	70	30	30	-	3.9	
MT1-1.6-143D	3.0	31	16.5	70	30	30	34	3.9	
MT1-1.5-7	3.2	1.7	0.8	70	8	8	-	3.6	
MT1-1.5-17	3.2	3.9	2.0	70	12	12	-	3.6	
MT1-1.5-31	3.2	7.1	3.6	70	15	15	-	3.6	
MT1-1.5-63	3.2	14.5	7.3	70	15	30	-	3.6	
MT1-1.5-71	3.2	16.4	8.3	70	23	23	-	3.6	
MT1-1.5-127	3.2	29	14.7	70	30	30	-	3.6	
MT1-1.5-127D	3.2	29	14.7	70	30	30	34	3.9	
MT1-1.5-143	3.2	33	16.5	70	30	30	-	3.9	
MT1-1.5-143D	3.2	33	16.5	70	30	30	34	3.9	
MT1-1.5-241	3.2	55	27.2	70	40	40	-	3.8	

MT1-1.3-7	3.8	1.8	0.8	70	8	8	-	3.5	
MT1-1.3-17	3.8	4.5	2.0	70	12	12	-	3.5	
MT1-1.3-31	3.8	8.1	3.6	70	15	15	-	3.5	
MT1-1.3-63	3.8	16.5	7.3	70	15	30	-	3.5	
MT1-1.3-71	3.8	18.6	8.3	70	23	23	-	3.5	
MT1-1.3-127	3.8	33.3	14.7	70	30	30	-	3.5	
MT1-1.3-127D	3.8	33.3	14.7	70	30	30	34	3.5	
MT1-1.3-143	3.8	37.5	16.5	70	40	40	-	3.6	
MT1-1.3-143D	3.8	37.5	16.5	70	40	40	44	3.6	
MT1.3-1.7-275	3.8	70.0	31.5	70	40	40	-	3.8	-
MT2-2.5-7	4.0	2.0	0.8	72	10	10	-	4.75	-
MT2-2.5-11	4.0	3.1	1.3	72	10	15	-	4.75	-
MT2-2.5-17	4.0	4.8	2.0	72	15	15	-	4.75	-
MT2-2.5-31	4.0	8.7	3.6	72	20	20	-	4.75	-
MT2-2.5-35	4.0	9.9	4.1	72	15	30	-	4.75	-
MT2-2.5-71	4.0	20.0	8.3	72	30	30	-	4.75	-
MT2-2.5-127	4.0	35.8	14.7	72	40	40	-	4.75	-
MT2-2.5-127D	4.0	35.8	14.7	72	40	40	44	4.75	-
MT2-2.5-143	4.0	40.3	16.5	72	40	40	-	4.75	-
MT2-2.5-143D	4.0	40.3	16.5	72	40	40	44	4.75	-
MT2-2.0-7	5.0	2.4	0.8	71	10	10	-	4.25	-
MT2-2.0-11	5.0	3.8	1.3	71	10	10	-	4.25	-
MT2-2.0-17	5.0	5.9	2.0	71	15	15	-	4.25	-
MT2-2.0-31	5.0	10.8	3.6	71	20	20	-	4.25	-
MT2-2.0-35	5.0	12.1	4.1	71	15	30	-	4.25	-
MT2-2.0-71	5.0	24.6	8.3	71	30	30	-	4.25	-
MT2-2.0-127	5.0	44.1	14.7	71	40	40	-	4.25	-
MT2-2.0-127D	5.0	44.1	14.7	71	40	40	44	4.25	-
MT2-2.0-143	5.0	49.1	16.5	71	40	40	-	4.25	-
MT2-2.0-143D	5.0	49.1	16.5	71	40	40	44	4.25	-
MT1.42-1.2-127	5.6	49.0	14.7	70	40	40	-	3.5	-
MT2-1.6-7	6.0	3.0	0.8	70	10	10	-	3.9	-
MT2-1.6-11	6.0	4.7	1.3	70	10	15	-	3.9	-

MT2-1.6-17	6.0	7.2	2.0	70	15	15	-	3.9	-
MT2-1.6-31	6.0	13.2	3.6	70	20	20	-	3.9	-
MT2-1.6-35	6.0	14.9	4.1	70	15	30	-	3.9	-
MT2-1.6-71	6.0	30.2	8.3	70	30	30	-	3.9	-
MT2-1.6-125	6.0	53.2	14.6	70	40	40	-	3.9	-
MT1.42-1.12-127	6.0	52.7	14.7	67	40	40	-	3.9	-
MT2-1.6-127	6.0	54.0	14.7	70	40	40	-	3.9	
MT2-1.6-127D	6.0	54.0	14.7	70	40	40	44	3.9	
MT2-1.6-143	6.0	60.5	16.5	70	40	40	-	4.1	
MT2-1.6-143D	6.0	60.5	16.5	70	40	40	44	4.1	
MT2-1.6-144D	6.0	61.3	16.8	70	40	40	44	4.1	-
MT2-1.6-199	6.0	84.8	23.2	70	50	50	-	3.9	-
MT2-1.2-7	7.7	3.9	0.8	68	10	10	-	3.5	-
MT2-1.2-11	7.7	6.1	1.3	68	10	15	-	3.5	-
MT2-1.2-17	7.7	9.4	2.0	68	15	15	-	3.5	-
MT2-1.2-31	7.7	17.1	3.6	68	20	20	-	3.5	-
MT2-1.2-35	7.7	19.3	4.1	68	15	30	-	3.5	-
MT2-1.2-71	7.7	39.1	8.3	68	30	30	-	3.5	-
MT2-1.2-127	7.7	70.0	14.7	68	40	40	-	3.5	
MT2-1.2-127D	7.7	70.0	14.7	68	40	40	44	3.5	
MT2-1.2-143	7.7	78.0	16.5	68	40	40	-	3.5	
MT2-1.2-143D	7.7	78.0	16.5	68	40	40	44	3.5	
MT4-2.5-127	8.0	72.6	14.7	72	62	62	-	4.9	
MT4-2.3-127	9.0	78.0	14.7	70	62	62	-	5.5	
MT2.6-1.1-199	11.4	156	23.2	69	50	50	-	3.7	-
MT4-1.4-127	14.0	122	14.7	69	62	62	-	4.5	
MT2.6-0.8-263	15.0	270	30.0	68	50	50	-	3.9	-
MT3.6-1.0-200D	17.4	240	23.3	69	56	56	59	3.2	-
MT3-0.8-287	18.0	350	33.4	68	55	55	-	4.1	-
MT2.9-0.7-263	18.8	330	30.0	65	50	50	-	3.8	-
MT6.25-1.5-104	21.0	149	12.0	71	50	50	-	4.5	-
MT3-0.6-287	23.0	450	33	64	50	50	-	3.8	-
MT7.84-1.55-66	25.3	115	7.6	70	55	55	-	4.5	-
MT25-1.6-18	80	98	2.1	70	40	40	-	4.9	-

MT25-2.5-31	52	110	3.6	71	55	55	-	5.8	-
MT25-1.6-31	80	168	3.6	70	55	55	-	4.9	-
MT25-2.5-124	52	440	14.5	71	110	120	-	5.8	-
MT25-1.6-124	80	670	14.5	70	110	120	-	4.95	-

Multi-Stage Thermoelectric Modules

Type	I _{max} , Amps	Hot side Th = 27°C			Dimensions, mm				
		Q _{max} , Watts	V _{max} , Volts	ΔT _{max} ,K (min)	A	B	C	D	H
2MT1.2-1.3-127-63	2.8	16.5	14.0	86	30	30	30	30	6.2
2MT2-1.6-127-63	5.5	25.0	15.8	85	40	40	40	40	7.3
2MT2-1.2-127-63	6.0	30.0	15.8	85	40	40	40	40	7.0
2MT2.6-1.4-44-12	8.0	10.0	5.27	85	25	22.5	18	13	8.0
2MT4.7-1.6-127-70	9.5	59.0	14.4	83	62	62	62	62	8.4

Micromodules

Thermoelectric Micromodules

Type	I _m , Amps	Hot side Th = 27°C			Dimensions, mm					
		Q _{max} , Watts	V _{max} , Volts	ΔT _{max} ,K (min)	A	B	C	D	H	
2-STAGE MODULES										
2MT0.38-1.03-48-23	1.20	2.60	5.40	89	9.9	11.0	6.6	8.8	3.8	
2MT0.44-1.1-7-4	1.30	0.40	0.90	90	4.2	4.2	3.0	3.0	4.0	
2MT0.44-1.1-17-8	1.30	0.95	2.09	92	6.8	6.8	4.0	4.0	4.0	
2MT0.42-1.1-7-3	1.40	0.37	0.80	90	3.9	3.9	3.0	3.0	3.8	
2MT0.38-1.3-7-2	1.40	0.40	0.91	90	4.2	4.2	3.0	3.0	4.0	
2MT0.44-1.0-7-3	1.40	0.40	0.77	92	4.0	4.0	3.2	3.2	3.8	
2MT0.49-1.4-17-5	1.40	0.70	2.00	99	6.6	6.6	3.9	3.9	4.8	
2MT0.44-1.0-16-7	1.40	1.00	1.70	88	6.1	6.1	4.1	4.1	3.8	
2MT0.44-1.0-17-7	1.45	0.95	1.95	90	6.1	6.1	4.1	4.1	4.2	
2MT0.66-1.2-65-27	1.90	8.00	8.90	95	15.0	18.0	12.0	12.0	4.1	
3-STAGE MODULES										

3MT0.32-1.2-71-20-8	0.90	0.96	7.60	115	11.6	11.3	4.6	4.6	6.0
3MT0.49-1.0-30-14-4	1.30	0.67	3.10	109	8.8	8.8	4.4	4.1	5.3
3MT0.49-1.0-16-7-2	1.30	0.37	1.64	110	6.6	6.6	2.5	2.5	5.3
4-STAGE MODULES									
4MT0.44-1.3-43-15-5-2	1.10	0.30	4.74	125	10.0	7.3	2.0	2.0	9.8
4MT0.44-1.1-43-15-7-2	1.10	0.34	4.36	124	12.0	7.3	2.0	2.0	9.3
4MT0.44-1.1-43-15-10-2	1.10	0.35	4.51	120	10.0	7.3	2.0	2.0	9.3
4MT0.81-1.0-118-48-19-6	2.20	2.00	12.2	125	18.0	18.0	12.0	12.0	8.3
4MT1.0-1.6-54-20-7-2	2.40	0.70	6.30	120	17.8	14.8	3.0	3.0	8.5
4MT1.0-1.4-57-23-7-2	2.40	0.70	6.30	132	17.8	14.8	3.0	3.0	8.5
4MT1.0-1.6-54-20-7-2	3.10	1.00	6.30	120	17.8	14.8	3.0	3.0	6.5
4MT1.0-1.5-57-23-9-4	3.10	1.10	6.40	126	17.8	14.8	3.0	3.0	8.5
4MT1.0-1.0-57-23-9-4	3.10	1.62	6.50	125	17.8	14.8	3.0	3.0	6.5

Multi-stage microcoolers

Type	Imx, Amps	Hot side Th = 27°C			Dimensions, mm				
		Qmax, Watts	Vmax, Volts	ΔTmax,K (min)	A	B	C	D	H
2-STAGE MODULES									
2MT0.38-1.03-48-23	1.20	2.60	5.40	89	9.9	11.0	6.6	8.8	3.8
2MT0.44-1.1-7-4	1.30	0.40	0.90	90	4.2	4.2	3.0	3.0	4.0
2MT0.44-1.1-17-8	1.30	0.95	2.09	92	6.8	6.8	4.0	4.0	4.0
2MT0.42-1.1-7-3	1.40	0.37	0.80	90	3.9	3.9	3.0	3.0	3.8
2MT0.38-1.3-7-2	1.40	0.40	0.91	90	4.2	4.2	3.0	3.0	4.0
2MT0.44-1.0-7-3	1.40	0.40	0.77	92	4.0	4.0	3.2	3.2	3.8
2MT0.49-1.4-17-5	1.40	0.70	2.00	99	6.6	6.6	3.9	3.9	4.8
2MT0.44-1.0-16-7	1.40	1.00	1.70	88	6.1	6.1	4.1	4.1	3.8
2MT0.44-1.0-17-7	1.45	0.95	1.95	90	6.1	6.1	4.1	4.1	4.2
2MT0.66-1.2-65-27	1.90	8.00	8.90	95	15.0	18.0	12.0	12.0	4.1
3-STAGE MODULES									
3MT0.32-1.2-71-20-8	0.90	0.96	7.60	115	11.6	11.3	4.6	4.6	6.0
3MT0.49-1.0-30-14-4	1.30	0.67	3.10	109	8.8	8.8	4.4	4.1	5.3
3MT0.49-1.0-16-7-2	1.30	0.37	1.64	110	6.6	6.6	2.5	2.5	5.3

4-STAGE MODULES									
4MT0.44-1.3-43-15-5-2	1.10	0.30	4.74	125	10.0	7.3	2.0	2.0	9.8
4MT0.44-1.1-43-15-7-2	1.10	0.34	4.36	124	12.0	7.3	2.0	2.0	9.3
4MT0.44-1.1-43-15-10-2	1.10	0.35	4.51	120	10.0	7.3	2.0	2.0	9.3
4MT0.81-1.0-118-48-19-6	2.20	2.00	12.2	125	18.0	18.0	12.0	12.0	8.3
4MT1.0-1.6-54-20-7-2	2.40	0.70	6.30	120	17.8	14.8	3.0	3.0	8.5
4MT1.0-1.4-57-23-7-2	2.40	0.70	6.30	132	17.8	14.8	3.0	3.0	8.5
4MT1.0-1.6-54-20-7-2	3.10	1.00	6.30	120	17.8	14.8	3.0	3.0	6.5
4MT1.0-1.5-57-23-9-4	3.10	1.10	6.40	126	17.8	14.8	3.0	3.0	8.5
4MT1.0-1.0-57-23-9-4	3.10	1.62	6.50	125	17.8	14.8	3.0	3.0	6.5