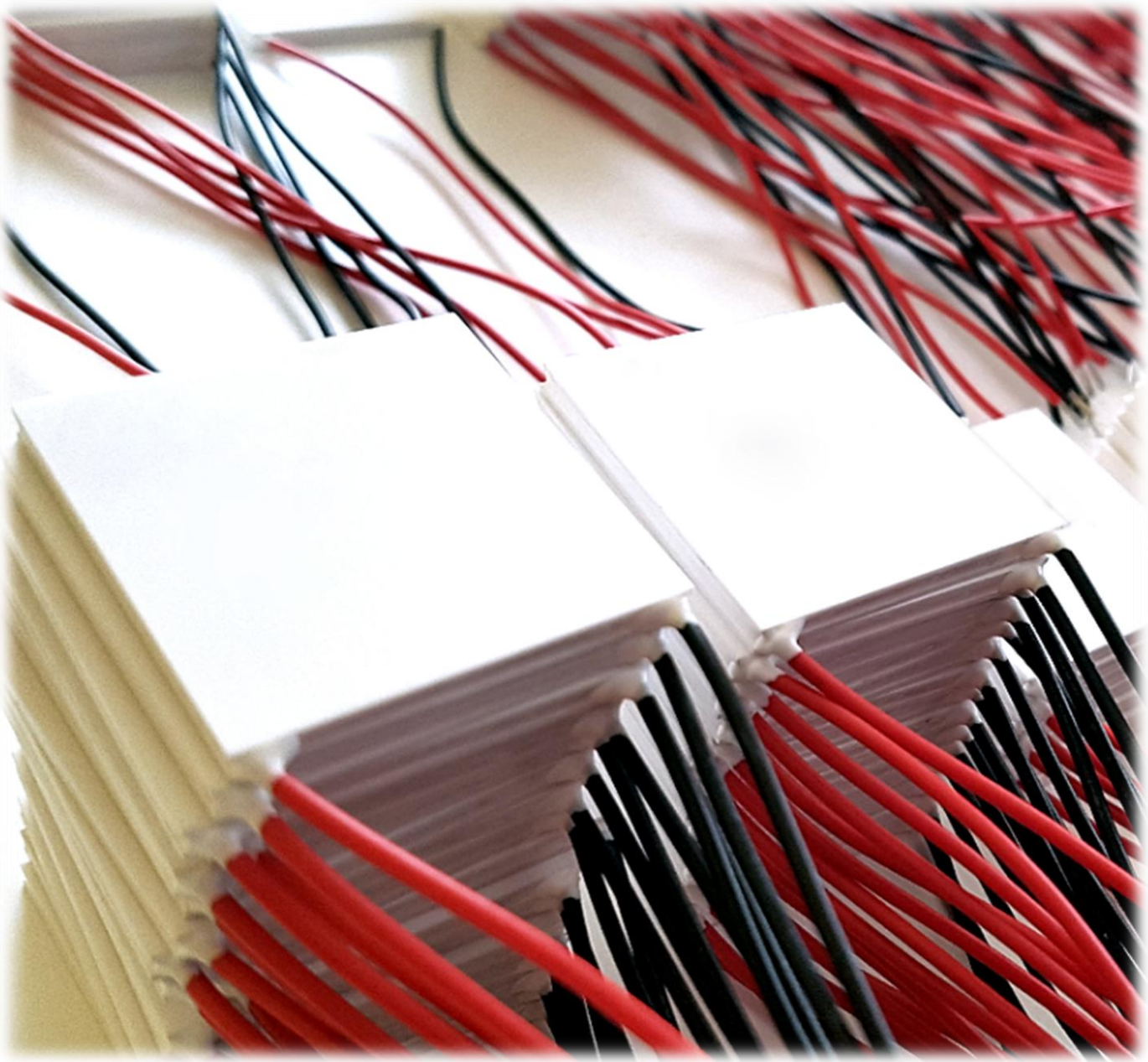

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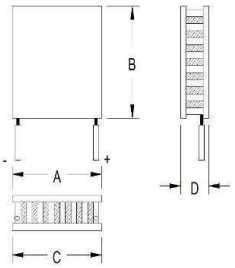
Standard Module

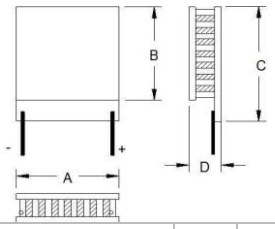
It is suitable for the higher current and larger cooling requirements. Typical application includes experimental, scientific and biomedical instruments, laboratory equipment, industry and electrical equipment and consumables.



No.	Model No.	I max (A)	Th=27°C			N	Dimensions (mm)		
			Q max (W)	V max (V)	ΔT max (°C)		A/C	B	D
1	TES1-031021	2.1	4.4	3.8	68	31	12	12	3.4
2	TES1-071021	2.1	10.1	8.6	68	71	18	18	3.4
3	TES1-127021	2.1	18.1	15.4	68	127	25	25	3.4
4	TES1-031025	2.5	5.3	3.8	68	31	15	15	4.0
5	TES1-063025	2.5	10.6	7.6	68	63	15	30	4.0
6	TES1-071025	2.5	12.0	8.6	68	71	23	23	4.0
7	TES1-127025	2.5	21.4	15.4	68	127	30	30	4.0
8	TES1-031030	3.0	6.3	3.8	68	31	15	15	3.6
9	TES1-063030	3.0	12.7	7.6	68	63	15	30	3.6
10	TES1-071030	3.0	14.4	8.6	68	71	23	23	3.6
11	TES1-127030	3.0	25.7	15.4	68	127	30	30	3.6
12	TES1-031040	3.9	8.2	3.8	68	31	15	15	3.2
13	TES1-063040	3.9	16.6	7.6	68	63	15	30	3.2
14	TES1-071040	3.9	18.7	8.6	68	71	23	23	3.2
15	TES1-127040	3.9	33.4	15.4	68	127	30	30	3.2
16	TEC1-031040	3.9	8.2	3.8	69	31	20	20	4.7
17	TEC1-035040	3.9	9.2	4.2	69	35	15	30	4.7
18	TEC1-071040	3.9	18.7	8.6	69	71	30	30	4.7
19	TEC1-127040	3.9	33.4	15.4	69	127	40	40	4.7
20	TEC1-031060	6.0	12.5	3.8	69	31	20	20	3.8
21	TEC1-035060	6.0	14.2	4.2	69	35	15	30	3.8
22	TEC1-071060	6.0	28.7	8.6	69	71	30	30	3.8
23	TEC1-127060	6.0	51.4	15.4	69	127	40	40	3.8
24	TEC1-031080	8.5	16.8	3.8	69	31	20	20	3.3
25	TEC1-035080	8.5	19.0	4.2	69	35	15	30	3.3
26	TEC1-071080	8.5	38.5	8.6	69	71	30	30	3.3
27	TEC1-127080	8.5	72.0	15.4	69	127	40	40	3.3
28	TEC1-127090	9.0	77.1	15.4	71	127	62	62	5.6
29	TEC1-127140	14	120.0	15.4	71	127	62	62	4.6

Miniature Module

It is suitable for various cooling and heat applications where onlya limited area anda small amountof cooling or heat are involved. Typical applications are laser diode cooling, infrared systems, electro-optics and electronic equipment and other low wattage applications.



No.	Model No.	I max (A)	Th=27°C			N	Dimensions (mm)			
			Q max (W)	V max (V)	ΔT max (°C)		A	B	C	D
1	TES1-018008	0.8	0.97	2.1	67	18	4.9	4.9	6.5	2.4
2	TES1-032008	0.8	1.72	3.8	67	32	6.5	6.5	8.1	2.4
3	TES1-066008	0.8	3.56	7.9	67	66	9.8	8.9	11.4	2.4
4	TES1-007012	1.2	0.57	0.8	67	7	4	4	4	2.7
5	TES1-017012	1.2	1.38	2.0	67	17	6.6	6.6	6.6	2.7
6	TES1-018012	1.2	1.46	2.1	67	18	6.0	6.2	7.2	2.7
7	TES1-024012	1.2	1.97	2.7	67	24	6.6	8.8	10.8	2.5
8	TES1-030012	1.2	2.43	3.6	67	30	6.2	10.3	12.3	2.3
9	TES1-031012	1.2	2.51	3.7	67	31	8.8	8.8	8.8	2.7
10	TES1-031012	1.2	2.51	3.7	67	31	8.8	8.8	11.0	2.7
11	TES1-065012	1.2	5.34	7.8	67	65	13.2	12.1	13.2	2.7
12	TES1-068012	1.2	5.59	8.2	67	68	13.2	13.2	13.2	2.7
13	TES1-007015	1.5	0.71	0.8	67	7	4.0	4.0	4.0	2.4
14	TES1-017015	1.5	1.72	2.0	67	17	6.6	6.6	6.6	2.4
15	TES1-018015	1.5	1.82	2.1	67	18	6.0	6.2	7.2	2.4
16	TES1-024015	1.5	2.42	2.7	67	24	6.6	8.8	10.8	2.2
17	TES1-030015	1.5	3.03	3.6	67	30	6.2	10.3	12.3	2.1
18	TES1-031015	1.5	3.13	3.7	67	31	8.1	8.1	8.1	2.4
19	TES1-031015	1.5	3.13	3.7	67	31	8.8	8.8	8.8	2.4
20	TES1-031015	1.5	3.13	3.7	67	31	8.8	8.8	11.0	2.4
21	TES1-065015	1.5	6.57	7.8	67	65	13.2	12.1	13.2	2.4
22	TES1-068015	1.5	6.87	8.2	67	68	13.2	13.2	13.2	2.4
23	TES1-007020	2.0	0.95	0.8	67	7	4.0	4.0	4.0	2.2
24	TES1-017020	2.0	2.30	2.0	67	17	6.6	6.6	6.6	2.2
25	TES1-018020	2.0	2.43	2.1	67	18	6.0	6.2	7.2	2.2
26	TES1-024020	2.0	3.32	2.7	67	24	6.6	8.8	10.8	2.0
27	TES1-030020	2.0	4.04	3.6	67	30	6.2	10.3	12.3	1.8
28	TES1-031020	2.0	4.18	3.7	67	31	8.1	8.1	8.1	2.2
29	TES1-031020	2.0	4.18	3.7	67	31	8.8	8.8	8.8	2.2
30	TES1-031020	2.0	4.18	3.7	67	31	8.8	8.8	11.0	2.2
31	TES1-065020	2.0	8.76	7.8	67	65	13.2	12.1	13.2	2.2
32	TES1-068020	2.0	9.16	8.2	67	68	13.2	13.2	13.2	2.2

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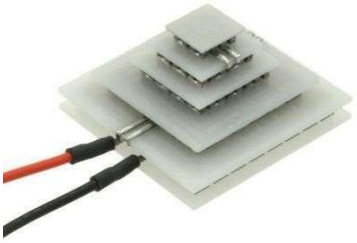
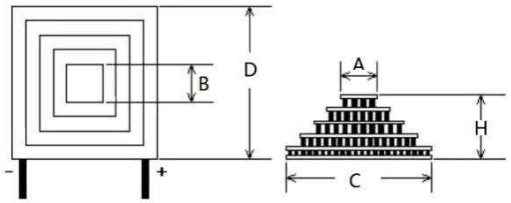
Multistage Module

The multi-stage modules are designed to provide significantly higher temperature difference. They are suitable for low temperature applications where a small or medium cooling power is required. Typical application areas include CCD arrays-detectors and electro-optics.

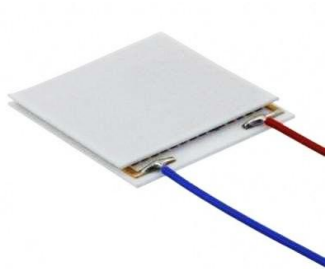


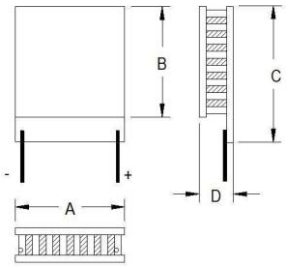


No.	Model No.	I max (A)	Th=27°C			Dimensions (mm)				
			Q max (W)	V max (V)	ΔT max (°C)	A	B	C	D	H
1	TES2-010014	1.45	0.42	0.84	86	3.2	3.2	3.9	3.9	3.8
2	TES2-024014	1.40	1.03	1.96	83	4.1	4.1	6.1	6.1	4.2
3	TES2-083006	0.65	1.19	7.96	92	4.9	4.9	9.8	9.8	4.2
4	TES2-009020	2.00	0.41	0.80	91	3.5	3.5	8.0	8.0	7.4
5	TES2-048021	2.10	3.11	3.80	81	11.5	11.5	15.0	15.0	6.6
6	TEC2-048040	4.00	6.04	3.80	81	15.0	15.0	20.0	20.0	7.2
7	TEC2-102043	4.30	12.65	8.60	85	20.0	20.0	30.0	30.0	7.2
8	TES2-190028	2.80	16.05	15.50	83	30.0	30.0	30.0	30.0	6.5
9	TEC2-190060	6.00	34.51	15.50	83	40.0	40.0	40.0	40.0	7.5
10	TES3-026013	1.30	0.30	1.94	110	2.5	2.5	6.6	6.6	5.2
11	TES3-046013	1.30	0.60	3.40	109	4.1	4.4	8.8	8.8	5.8
12	TES3-229018	1.80	6.48	15.40	96	15.0	15.0	30.0	30.0	9.5
13	TEC3-229035	3.50	12.58	15.40	96	20.0	20.0	40.0	40.0	10.4
14	TES4-246013	1.30	2.87	14.60	107	11.5	11.5	30.0	30.0	14.0
15	TEC4-246030	3.10	6.84	14.60	107	15.0	15.0	40.0	40.0	13.8
16	TES5-253015	1.60	1.74	14.50	118	8.0	8.0	30.0	30.0	15.4
17	TEC5-253030	3.00	3.37	14.50	118	10.0	10.0	40.0	40.0	16.9
18	TES6-255015	1.50	0.63	14.50	131	3.5	3.5	30.0	30.0	18.3
19	TEC6-255030	3.00	1.22	14.50	131	5.0	5.0	40.0	40.0	20.1

High Performance Module

Typical application for experimental instruments, chillers, PCR cyclers and analyzers, etc.

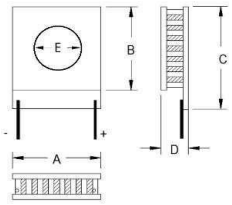




No.	Model No.	I max (A)	Th=27°C			Dimensions (mm)			
			Q max (W)	V max (V)	ΔT max (°C)	A	B	C	D
1	HP-127040	3.9	35.0	15.4	72	30	30	34	3.6
2	HP-127040	3.9	37.0	15.4	72	40	40	44	4.8
3	HP-127060	6.0	55.0	15.4	72	40	40	44	3.9
4	HP-161050	5.0	62.3	20.0	72	40	40	44	3.6
5	HP-161070	6.7	83.9	20.0	72	40	40	44	3.3
6	HP-127080	8.5	77.0	15.4	72	40	40	44	3.3
7	HP-199120	12.0	165.0	24.0	72	40	40	44	3.1
8	HP-241060	6.0	113.0	29.8	72	55	55	55	4.3

Center Hole and Annual module

Center Hole for transmission of light, wires, probes or other hardware through the TEM. It is suitable for industrial, electrical equipment, laboratory and optical-electronics.



No.	Model No.	I max (A)	Th=27°C			N	Dimensions (mm)				
			Q max (W)	V max (V)	ΔT max (°C)		A	B	C	D	E
1	TES1-095030	3.0	19.3	11.5	67	95	30	30	30	3.6	14.5
2	TES1-125030	3.0	25.3	15.2	67	125	30	30	30	3.6	3.6
3	TES1-095040	3.9	25.1	11.5	67	95	30	30	30	3.2	14.5
4	TES1-125040	3.9	32.9	15.2	67	125	30	30	30	3.2	3.6
5	TEC1-125040	3.9	32.9	15.2	68	125	40	40	40	4.7	4.7
6	TEC1-125060	6.0	50.7	15.2	68	125	40	40	40	3.8	4.7
7	TEC1-125080	8.5	67.7	15.2	68	125	40	40	40	3.3	4.7

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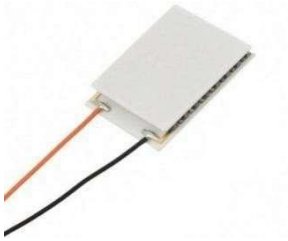
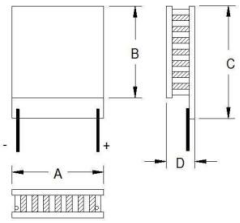
High Temperature module

It has super cycling capacity and is suitable for extra high temperature, or power generator from waste heat.

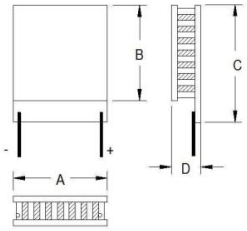




No.	Model No.	I max (A)	Th=27°C			N	Dimensions (mm)			
			Q max (W)	V max (V)	ΔT max (°C)		A	B	C	D
1	HTES1-127030	2.8	24.0	14.40	68	127	30	30	34	3.2
2	HTES1-127040	3.9	33.0	14.40	68	127	30	30	34	3.2
3	HTEC1-071040	3.7	18.0	8.10	68	71	30	30	34	4.1
4	HTEC1-127040	3.7	32.0	14.40	68	127	40	40	44	4.1
5	HTEC1-071060	6.0	29.0	8.10	68	71	30	30	34	3.8
6	HTEC1-127060	6.0	51.0	14.40	68	127	40	40	44	3.6
7	HTEC1-071080	8.5	39.0	8.10	68	71	30	30	34	3.3
8	HTEC1-127080	8.5	72.0	14.40	68	127	40	40	44	3.3

Power Generator Module

Itissuitablefordetectorinstruments,variousenvironmentswherehardtogetorunsuitableforelectricalpower, and the excess or waste heat recycling fields.



No.	Model No.	Tc=30°C, Th=200°C						Dimensions (mm)			
		Voc (V)	V Load (V)	I Load (A)	R in (Ω)	R Load (Ω)	W Load (W)	A	B	C	D
1	TEG-127005	8.54	4.27	0.54	7.9	7.9	2.3	30	30	34	3.6
2	TEG-127006	8.54	4.27	0.67	6.4	6.4	2.8	30	30	34	3.2
3	TEG-127009	8.54	4.27	0.92	4.6	4.6	3.9	30	30	34	3.2
4	TEG-071008	4.78	2.39	0.89	2.7	2.7	2.1	30	30	34	4.1
5	TEG-127008	8.54	4.27	0.89	4.8	4.8	3.8	40	40	44	4.1
6	TEG-071014	4.78	2.39	1.42	1.7	1.7	3.4	30	30	34	3.8
7	TEG-127014	8.54	4.27	1.42	3.0	3.0	6.0	40	40	44	3.6
8	TEG-071020	4.78	2.39	2.00	1.2	1.2	4.8	30	30	34	3.3
9	TEG-127020	8.54	4.27	2.00	2.1	2.1	8.5	40	40	44	3.3