

Micro Thermoelectric Coolers (TEC)

Model No.	I _{max} (A)	V _{max} (V)			ΔT _{max} (°C)			Q _{max} (W)			Top		Bottom		Height H (mm)
		TH = 27°C	TH = 50°C	TH = 70°C	TH = 27°C	TH = 50°C	TH = 70°C	TH = 27°C	TH = 50°C	TH = 70°C	W (mm)	L (mm)	W (mm)	L (mm)	
TYB-TEC14-017	1.5	2.1	2.3	2.4	70	78	83	1.8	1.9	2.0	4.8	4.8	4.8	4.8	1.6
TYB-TEC14-030	1.5	3.7	4.0	4.3	70	78	83	3.1	3.4	3.6	6.4	6.4	6.4	6.4	1.6
TYB-TEC14-048	1.5	5.8	6.5	6.9	70	78	83	5.0	5.5	5.8	8	8	8	8	1.6
TYB-TEC14-070	1.5	8.5	9.4	10	70	78	83	7.3	8.0	8.5	9.6	9.6	9.6	9.6	1.6
TYB-TEC15-017	3.5	2.1	2.3	2.5	70	79	84	4.1	4.5	4.8	6	6	6	6	1.7
TYB-TEC15-023	3.5	2.8	3.1	3.3	70	79	84	5.6	6.1	6.5	6	8.2	6	8.2	1.7
TYB-TEC15-029	3.5	3.6	4.0	4.2	70	79	84	7.0	7.7	8.2	6	10.2	6	10.2	1.7
TYB-TEC15-031	3.5	3.8	4.2	4.5	70	79	84	7.5	8.9	8.8	8	8	8	8	1.7
TYB-TEC15-035	3.5	4.4	4.8	5.1	70	79	84	8.5	9.3	9.9	6	12.2	6	12.2	1.7
TYB-TEC15-050	3.5	6.2	6.8	7.3	70	79	84	12.1	13.3	14.2	7	15	7	15	1.7
TYB-TEC16-030	3.4	3.7	4.0	4.3	69	77	82	6.8	7.4	7.8	8	8	8	8	1.6
TYB-TEC16-046	3.4	5.6	6.1	6.5	69	77	82	10.3	11.4	12.0	8	12	8	12	1.6
TYB-TEC16-096	3.4	11.8	12.8	13.6	69	77	82	21.7	23.8	25.0	12	16	14	16	1.6
TYB-TEC16-103	3.4	12.7	13.8	14.6	69	77	82	23.3	25.5	27.0	14	15	14	15	1.6
TYB-TEC16-126	3.4	15.5	16.7	17.9	69	77	82	28.3	31.0	32.8	16	16	16	16	1.6
TYB-TEC17-071	5.9	6.2		10.4	64			22.4		27.5	13.73	13.73	13.73	15.73	1.65
TYB-TEC17-127	5.9	11.1		18.6	64			40.1		49.1	18.29	18.29	18.29	20.9	1.65

Other specifications

1. Ceramics: Pure Al₂O₃ for all models of MC type. Aluminum nitride for all models of ML type.
2. Metallization: Standard metallization is CuNiAu with Au thickness of 0.25 to 0.6 μm.
3. Assembly solder is SnSb with melting point of 230°C.
4. Pretinching is available.

Definitions

1. I_{max} – Input current resulting in greatest ΔT (ΔT_{max}).
2. V_{max} – Voltage at ΔT_{max}.
3. ΔT_{max} – Maximum temperature difference a TEC can achieve (occurs at I = I_{max}, Q=0).
4. Q_{max} – Maximum amount of heat that can be absorbed at cold face (occurs at I = I_{max}, ΔT=0).
5. TH – Temperature of TEC hot face during operation.

TYB- TEC1 6-126

