



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



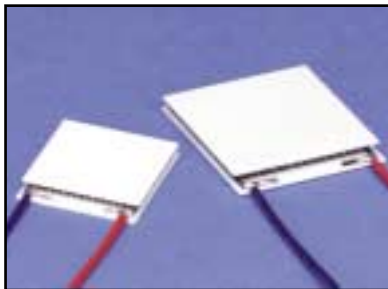
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





UltraTEC™

UltraTEC™ is the ultimate in thermoelectric cooling technology. Using high performance material technology, it offers the highest performance and efficiencies.

- High performance and power using the latest thermoelectric material technology
- Increased temperature differences (ΔT) or increased heat pumping density
- Increased efficiency
- Most popular sizes and capacities
- Solid-state reliability
- MELCOR Quality

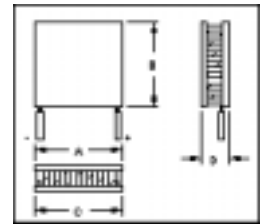
Interfacing and Options:

F2 (porch) style available in non-metallized finish only.
F1 style options listed on page 24.

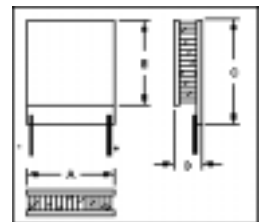
Definitions:

- I_{max} Input current resulting in greatest ΔT (ΔT_{max}) [amps]
 N Number of thermocouples (p- and n-type pairs)
 Q_{max} Maximum amount of heat that can be absorbed at cold face (occurs at $I = I_{max}$, $\Delta T = 0^\circ$) [watts]
 T_h Temperature of the TEC hot face during operation [$^\circ C$]
 ΔT_{max} Maximum temperature difference a TEC can achieve (occurs at $I = I_{max}$, $Q_c = 0$) [$^\circ C$]
 V_{max} Voltage at ΔT_{max}

F1 (no porch)



F2 (porch)



UltraTEC Series Specifications

Catalog Number	$T_h = 50^\circ C$				$T_h = 25^\circ C$				N	Dimensions (mm)				Wire Gauge (AWG)
	I_{max} (Amps)	$Q_{max}^{(1)}$ (Watts)	V_{max} (Volts)	ΔT_{max} ($^\circ C$)	I_{max} (Amps)	Q_{max} (Watts)	V_{max} (Volts)	ΔT_{max} ($^\circ C$)		A	B	C	D ²	
UT4-12-30-F1	3.8	37	16.1	78	3.9	33	14.4	68	127	30	30	30	3.2	24
UT4-12-30-F2	3.8	37	16.1	78	3.9	33	14.4	68	127	30	30	34	3.2	24
UT4-7-30-F1	3.7	21	9.0	79	3.8	18	8.1	70	71	30	30	30	4.7	18
UT4-12-40-F1	3.7	37	16.1	79	3.8	33	14.4	70	127	40	40	40	4.7	18
UT6-7-30-F1	5.7	32	9.0	79	6.0	29	8.1	70	71	30	30	30	3.8	18
UT6-12-40-F1	5.7	56	16.1	79	6.0	52	14.4	70	127	40	40	40	3.8	18
UT6-12-40-F2	5.7	56	16.1	79	6.0	52	14.4	70	127	40	40	44	3.8	18
UT8-12-25-F2	7.9	75	16.2	79	7.9	69	14.4	69	127	25	24	27	1.9	24
UT8-12-30-F2	7.9	75	16.2	79	7.9	69	14.4	69	127	30	30	34	2.6	20
UT8-12-40-F1	8.0	78	16.1	77	8.5	72	14.4	67	127	40	40	40	3.3	18
UT11-12-30-F2	10.9	105	16.2	79	11.0	95	14.4	69	127	30	30	34	2.4	22
UT15-7-30-F2	14.5	77	9.1	79	14.6	70	8.0	69	71	30	30	34	2.8	20
UT15-12-40-F2	14.5	138	16.2	79	14.6	126	14.4	69	127	40	40	44	2.8	20

For all UT Series modules, wire is 152mm (6.0 in.) long.

Notes:

- 1) Q_{max} rated value at $\Delta T = 0^\circ$, I_{max} and V_{max} , T_h at indicated value.
- 2) Thickness for non-metallized versions only.

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Software

