


marlow industries, inc.[®]

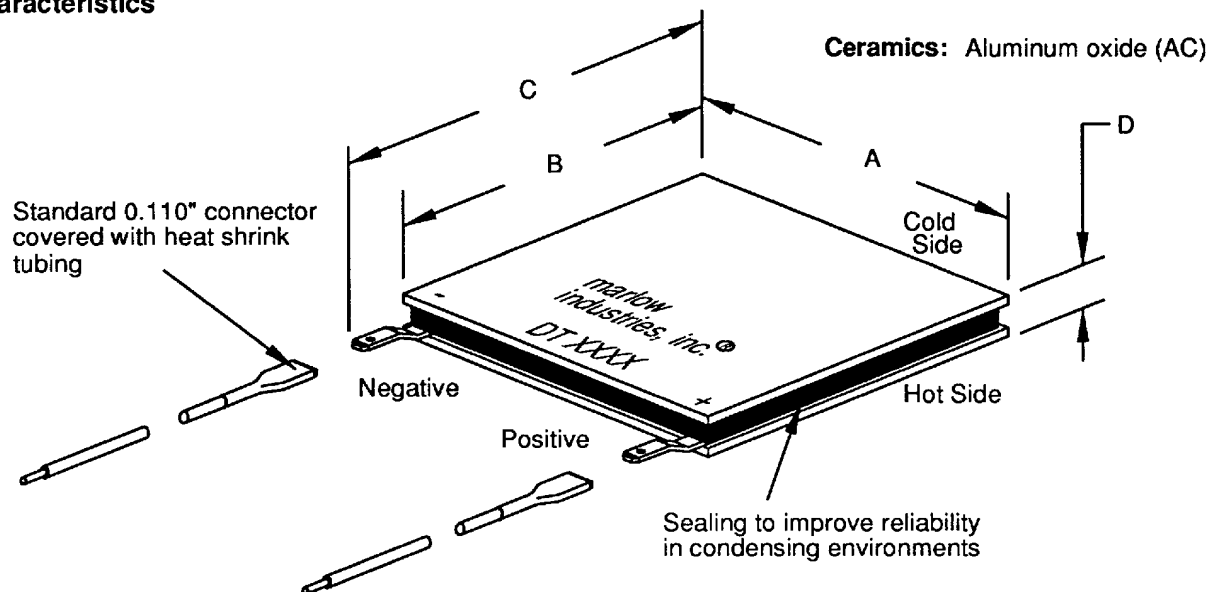
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T-62-23



DuraTEC[™] Thermoelectric Cooler

Mechanical Characteristics



Typical Performance Values

	DT MAX DRY N2	QMAX (WATTS)	IMAX (AMPS)	VMAX (VOLTS)	CERAMIC WIDTH A		CERAMIC LENGTH B		TOTAL LENGTH C		HEIGHT D	
					INCHES	(mm)	INCHES	(mm)	INCHES	(mm)	INCHES	(mm)
DT1063	62	28.5	5.5	8.24	1.181	30.0	1.181	30.0	1.46	37.1	0.167	4.24
DT1133	63	67.0	13.0	7.90	1.732	44.0	1.732	44.0	2.02	51.3	0.172	4.37
DT1049	64	33.3	3.6	14.80	1.181	30.0	1.181	30.0	1.47	37.3	0.152	3.86
DT1069	64	51.5	5.5	15.10	1.575	40.0	1.575	40.0	1.83	46.5	0.167	4.24
DT1089	64	70.0	7.5	14.80	1.575	40.0	1.575	40.0	1.83	46.5	0.149	3.78

DuraTEC[™] Features

The DuraTEC[™] series of thermoelectric coolers include:

- Sealing to improve reliability in condensing environments
- Quick and reliable standard spade lug connections
- The ability to withstand higher assembly processing temperature for short periods of time (<150 C)
- Dual Ni diffusion barriers for improved reliability

Storage, Installation, & Operation Cautions

For maximum reliability, storage and operation below 85°C is recommended. Excessive power cycling and powering through thermostatic (on/off) control is not recommended. Consult Marlow Industries' Thermoelectric Installation Guide or Reliability Report for more details. For additional information, please contact one of our application engineers for technical support.

DuraTEC™ Thermoelectric Cooler**Model Number**

The complete model number consists of the base model number followed by a two digit dash number designating the lead wire length and lapping options.

LEAD WIRES

-0X No lead wires
 -1X 4"(10.2cm) lead wires
 -2X 8"(20.3cm) lead wires

CERAMIC SURFACE

-X3 Lapped +/-0.005"(.125mm)
 -X4 Lapped +/-0.001"(.025mm)

For example, the standard version of this DuraTEC™ is a DT1XXX-03 which does not include lead wires and is lapped to +/- 0.005"(0.127mm). Standard 0.110" female spade connectors are used to connect directly to the DuraTEC™ and should be considered when designing your systems electrical connections.

Ordering Information

Please contact one of our Customer Service Representatives or Application Engineers for assistance in identifying or ordering the cooling solution that best meets your requirements. If you are located outside the North American continent or the United Kingdom, please contact our home office for the local representatives name and address nearest you.

Please contact our home office:

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Marlow Industries Quality Policy

For every product or service we provide, we will meet or exceed the customers' requirements, without exception. Our standard of performance is: Do It Right Today, Better Tomorrow.