

Crystal LTD TM SPEC Form

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Customer

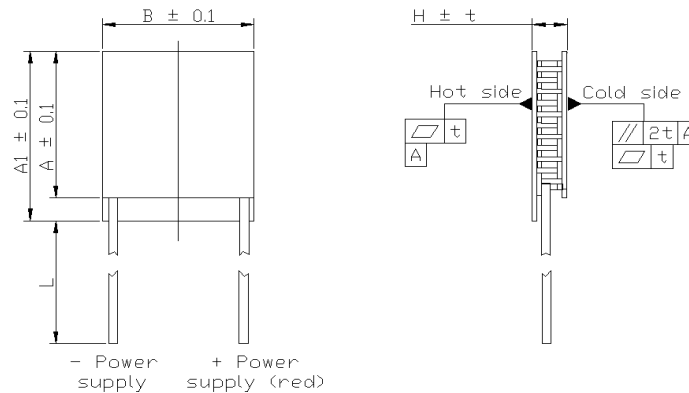
PO#

PO date

Thermoelectric module (TM) specification

| PO position # | TM          | Internal Solder Melting Temp, C | Max operating temperature, °C |                      | Parameters in vacuum at hot side temperature 25 °C |                      |                      |                       | Rac at 25 °C |                | Ceramic size, mm |   | TM Height  |                   | Wire                     |            |                 | Sealing |
|---------------|-------------|---------------------------------|-------------------------------|----------------------|--|----------------------|----------------------|-----------------------|--------------|----------------|------------------|---|------------|-------------------|--------------------------|------------|-----------------|---------|
|               |             |                                 | short peak                    | continuous operation | I <sub>max</sub> , A                               | U <sub>max</sub> , V | Q <sub>max</sub> , W | dT <sub>max</sub> , K | Rac, Ohm     | Tolerance ±, % | A/A1             | B | Height, mm | Tolerance t, ± mm | S, AWG #                 | Length, mm | Tolerance ±, mm |         |
| 1             | S-023-06-11 | 138                             | 130                           | 115                  | 1.4  | 2.9                  | 2.6                  | 72.5                  | 1.53         | 10             | 8.2              | 6 | 2.50       | 0.2               | 30                       | 100        | 5               |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |              |                |                  |   |            |                   | solid tinned uninsulated |            |                 |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |              |                |                  |   |            |                   |                          |            |                 |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |              |                |                  |   |            |                   |                          |            |                 |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |              |                |                  |   |            |                   |                          |            |                 |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |              |                |                  |   |            |                   |                          |            |                 |         |

Clamping force: 0.2 - 2.0 kg



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Max dT is reduced by 2-3K for silicon sealed and 1-2K for epoxy sealed versions.



### U(dT) at $T_{hot}=298K$

