

Crystal LTD TM SPEC Form

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Customer

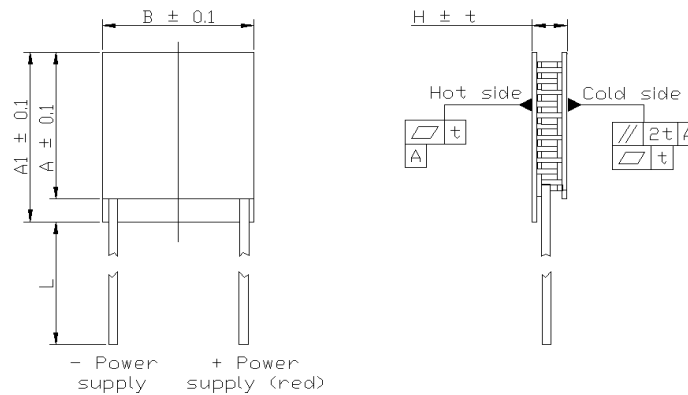
PO#

PO date

Thermoelectric module (TM) specification

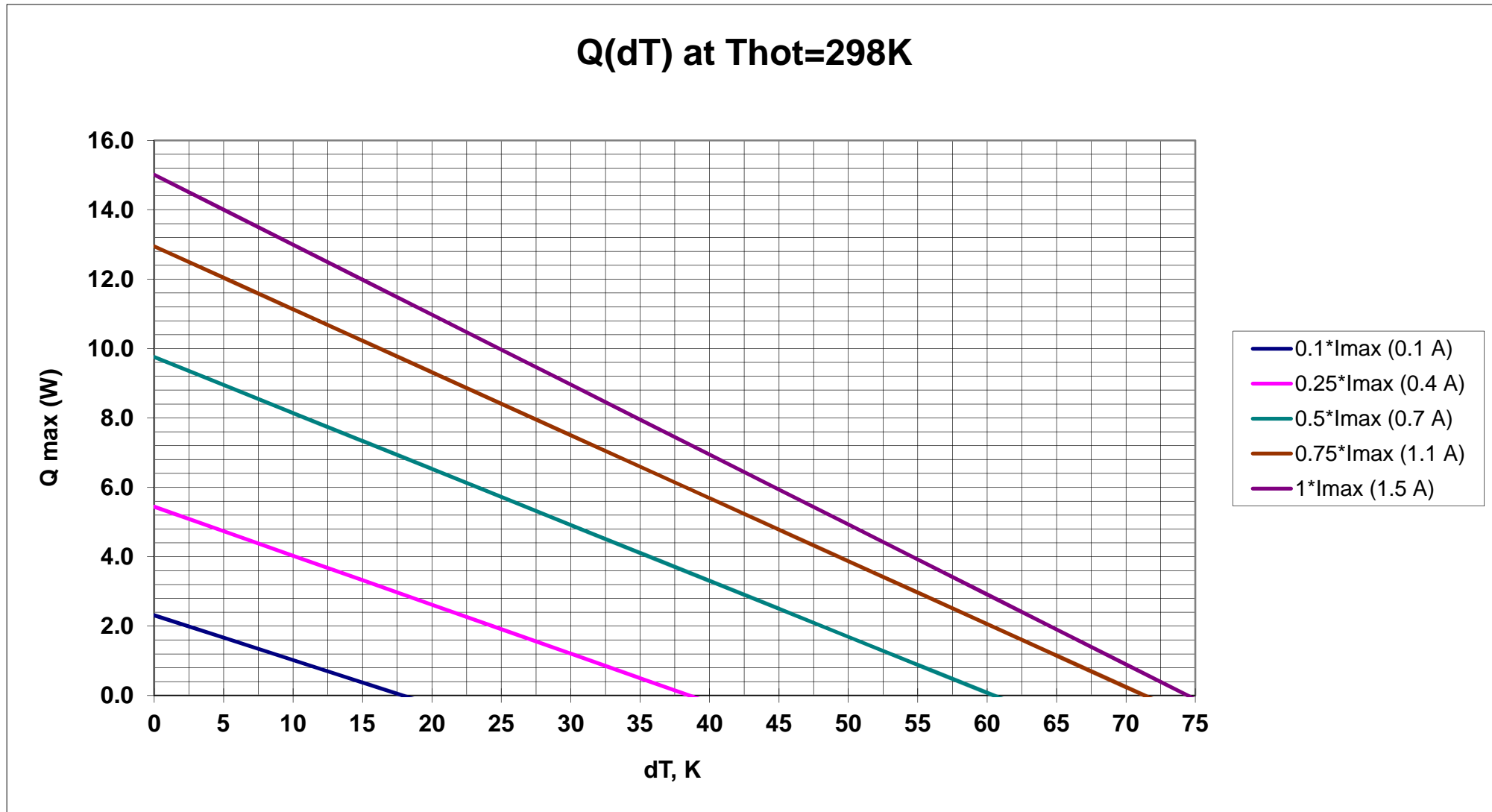
| PO position # | TM          | Internal Solder Melting Temp, C | Max operating temperature, °C |                      | Parameters in vacuum at hot side temperature 25 °C |                      |                      |                       | Rac at 25 °C          |                | Ceramic size, mm |    | 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 | R <sub>ac</sub> , Ohm | Tolerance ±, % | A/A1             | B  | Height, mm | Tolerance t, ± mm | S, mm <sup>2</sup>             | Length, mm | Tolerance ±, mm |         |
| 1             | S-127-07-15 | 138                             | 130                           | 115                  | 1.5  | 16.2                 | 15.0                 | 74.5                  | 8.17                  | 10             | 20/20            | 20 | 2.90       | 0.2               | 0.12                           | 100        | 1               |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |                       |                |                  |    |            |                   | MGTF (teflon)                  |            |                 |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |                       |                |                  |    |            |                   | or                             |            |                 |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |                       |                |                  |    |            |                   | 30AWG solid tinned uninsulated |            |                 |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |                       |                |                  |    |            |                   |                                |            |                 |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |                       |                |                  |    |            |                   |                                |            |                 |         |
|               |             |                                 |                               |                      |  |                      |                      |                       |                       |                |                  |    |            |                   |                                |            |                 |         |

Clamping force: 7.5 - 15.0 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 $T_{hot}=298K$

