

Crystal LTD TM SPEC Form

[www.crystalltherm.com](http://www.crystalltherm.com)

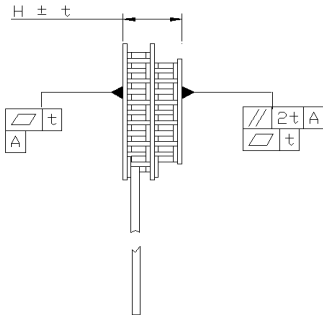
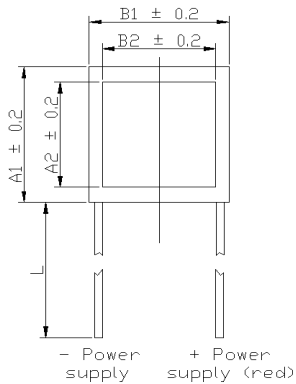
Customer

PO#  
PO date

Thermoelectric module (TM) specification

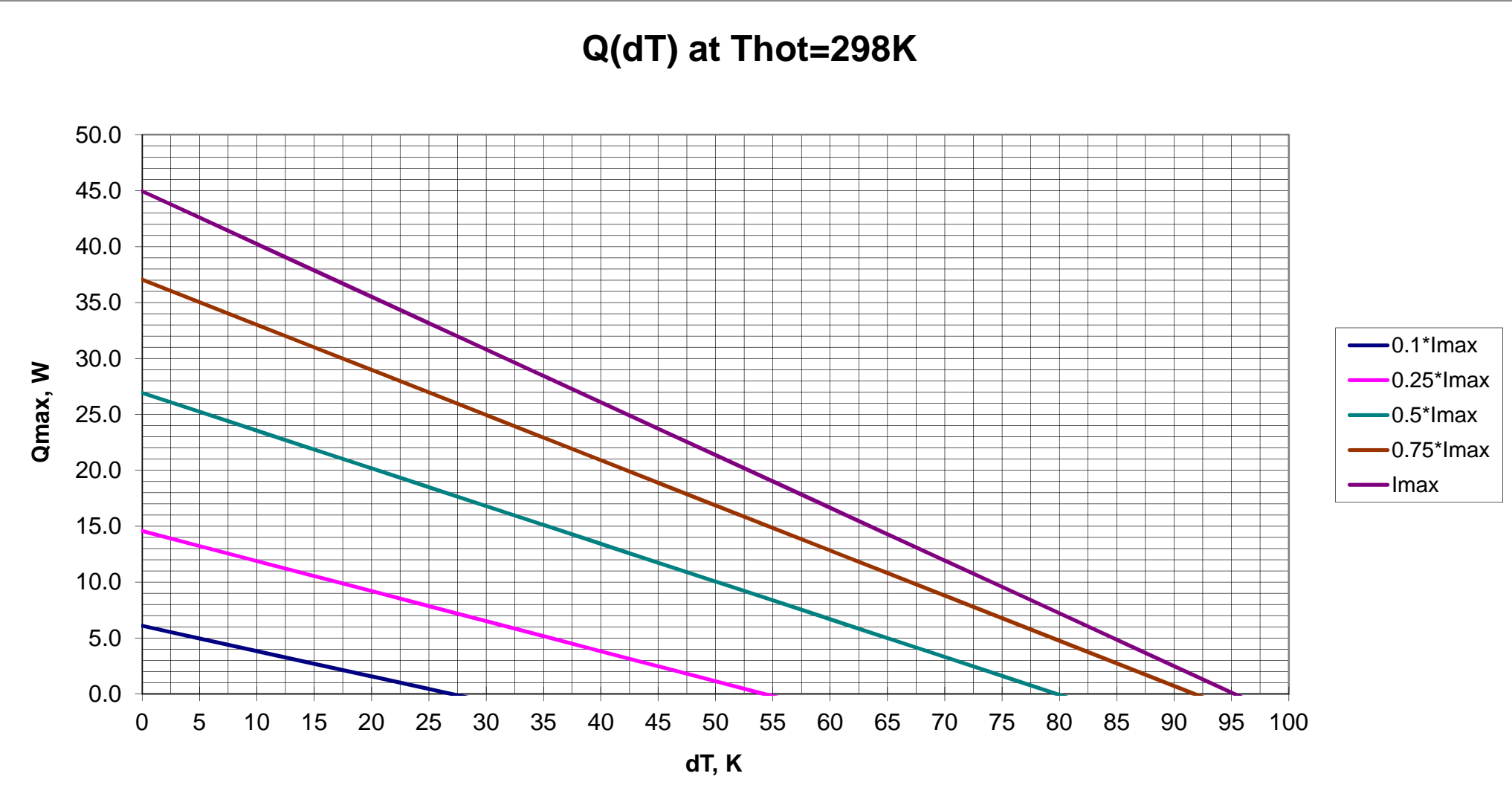
| PO position # | TM                 | Internal Solder Melting Temp, C | Max operating temperature, °C |                      | Parameters in vacuum at hot side temperature 25 °C |                      |                      |                       | Rac at 25 °C |                | Ceramic size, mm |       | 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 ±, % | A1/A2            | B1/B2 | Height, mm | Tolerance t, ± mm | S, AWG # | Length, mm | Tolerance ±, mm |         |
| 1             | 2-192-1420-1118-L2 | 138                             | 130                           | 115                  | 7.6  | 17.2                 | 45.0                 | 95                    | 2.17         | 10             | 40/40            | 40/40 | 8.10       | 0.02              | 20       | 100        | 5               |         |
|               |                    |                                 |                               |                      |  |                      |                      |                       |              |                |                  |       |            |                   | PVC      |            |                 |         |
|               |                    |                                 |                               |                      |  |                      |                      |                       |              |                |                  |       |            |                   |          |            |                 |         |
|               |                    |                                 |                               |                      |  |                      |                      |                       |              |                |                  |       |            |                   |          |            |                 |         |
|               |                    |                                 |                               |                      |  |                      |                      |                       |              |                |                  |       |            |                   |          |            |                 |         |
|               |                    |                                 |                               |                      |  |                      |                      |                       |              |                |                  |       |            |                   |          |            |                 |         |

Clamping force: 31.4 - 62.8 kg

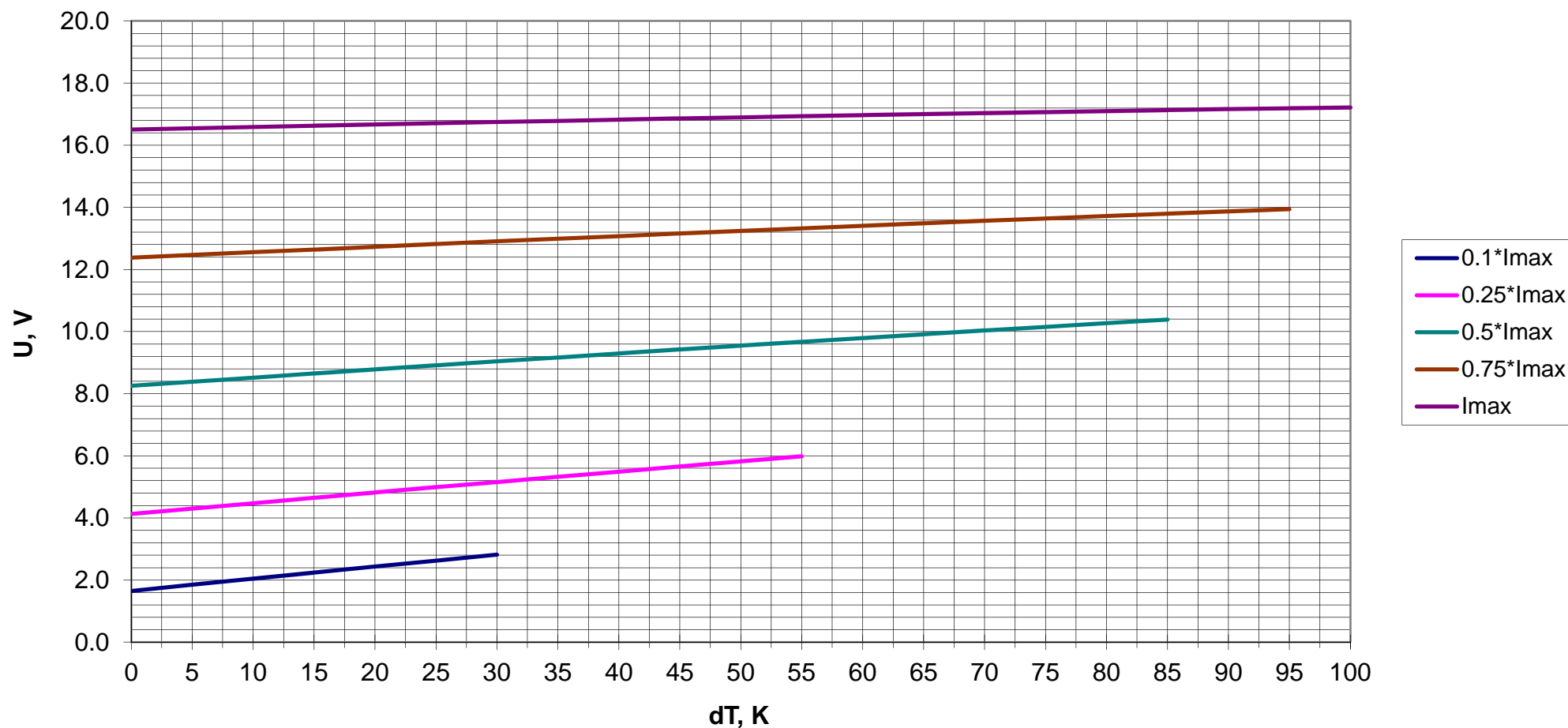


[www.crystalltherm.com](http://www.crystalltherm.com)

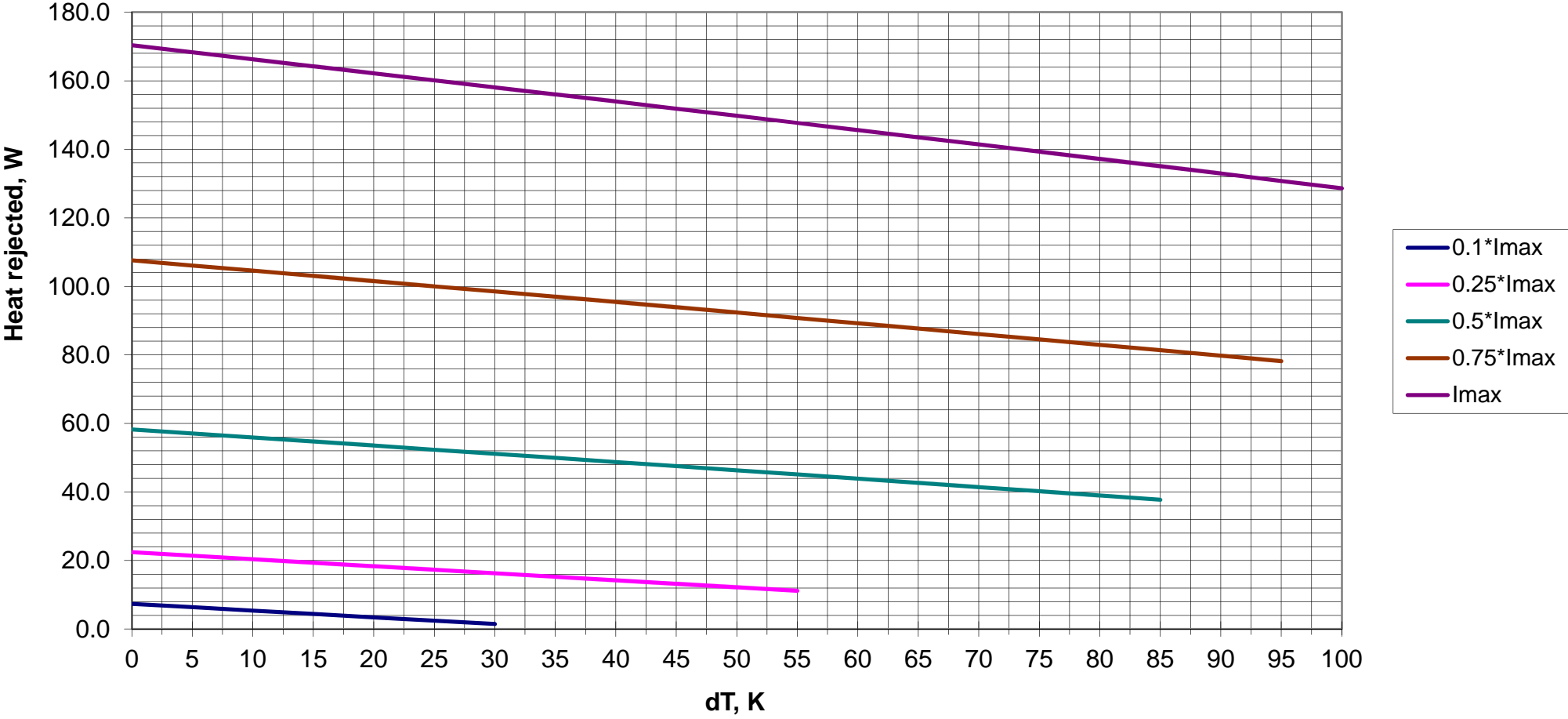
Max dT is reduced by 2-3K for silicon sealed and 1-2K for epoxy sealed versions.



### Voltage vs dT at $T_{hot}=298K$



### Heat rejected vs dT at $T_{hot}=298K$



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

