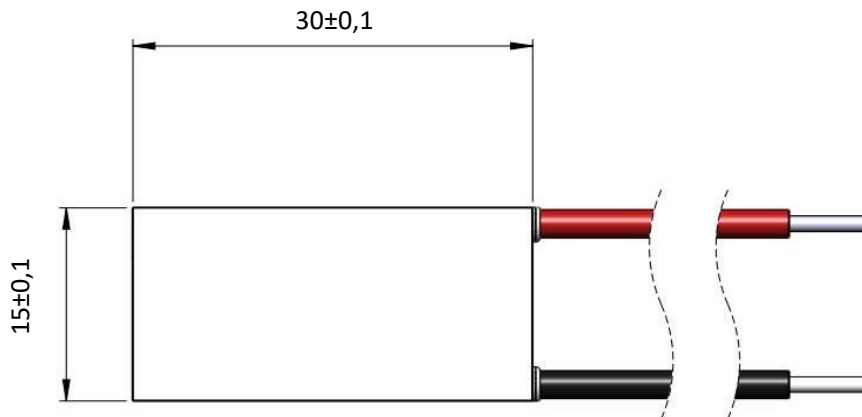
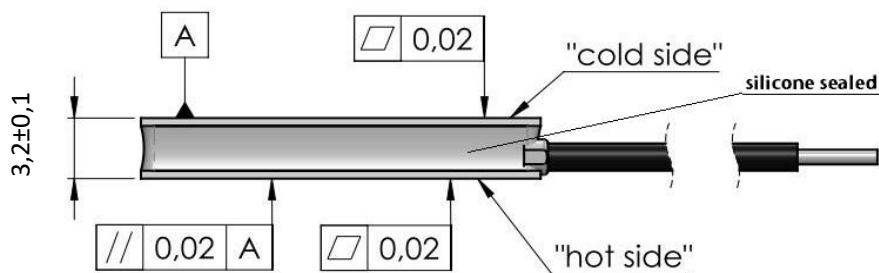


QC-63-1.0-3.9 AS

I _{max} (amp)	4,2 A	ΔT = ΔT _{max} ; Th = 25°C ± 0.5 K
U _{max} (volt)	7,1 V	ΔT = ΔT _{max} ; Th = 25°C ± 0.5 K
ΔT _{max} (kelvin)	-70 K	I = I _{max} ; Th = 25°C ± 0.5 K; Q = 0 W
Q _{max} (watt)	18,1 W	I = 4,84 A; >> Th = Tc = 25°C
AC resistance (ohm)	1,51 Ω	25°C ± 0.5 K

Environment: dry air, N2
 tolerances for thermal and electrical parameters ± 10%
 dimensions in millimeters



[Maximum module operating temperature:](#) 100°C

[Nonsymmetric +40°C/+90°C cycle resistance:](#) 20.000

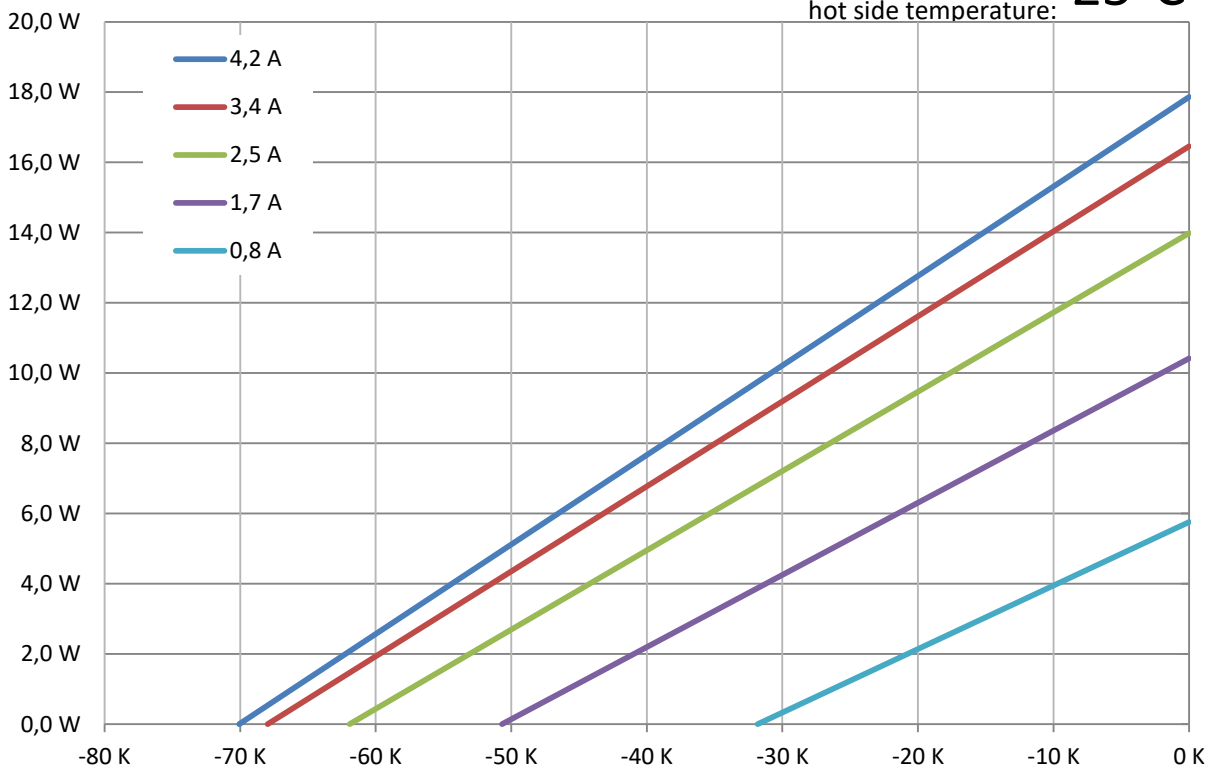
Condensation water protection: silicone sealed

cold side and hot side ceramics: Al₂O₃, white 96%
RoHS 2011/65/EU compliant

QC-63-1.0-3.9AS

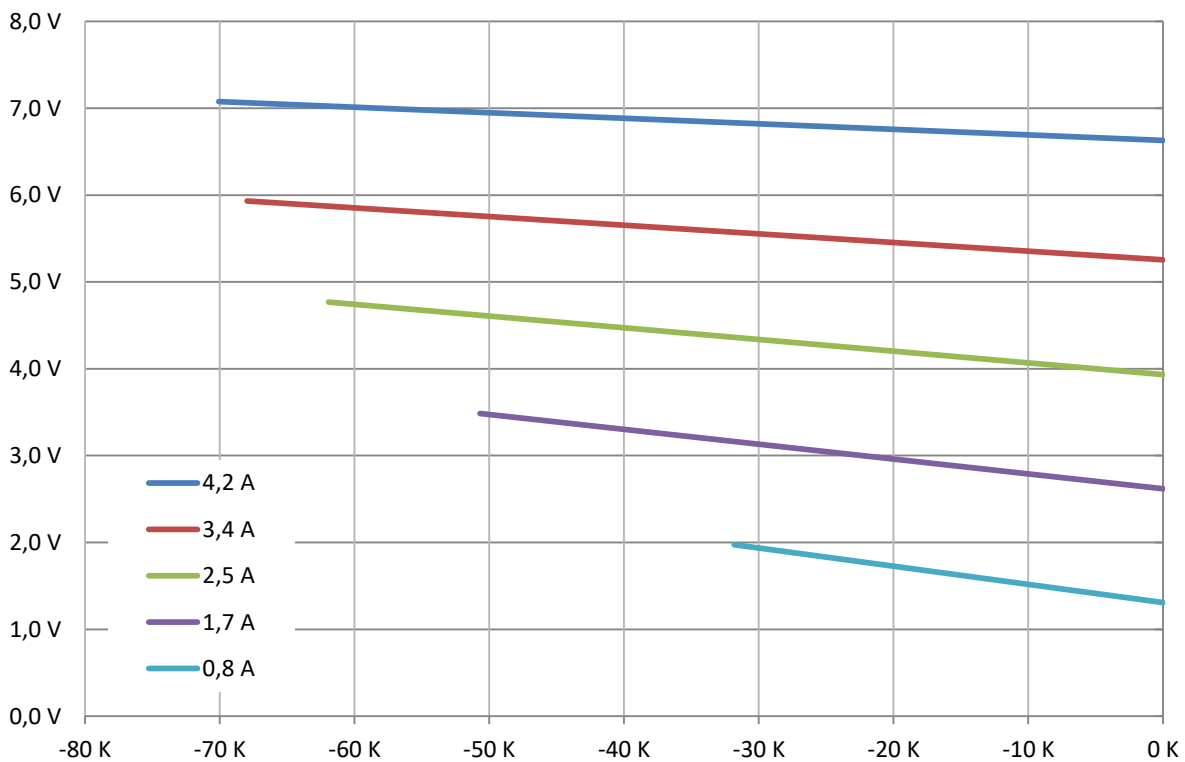
Thot:
25°C

cooling power
↑



← $\Delta T = T_{\text{cold}} - T_{\text{hot}}$

↑ module voltage



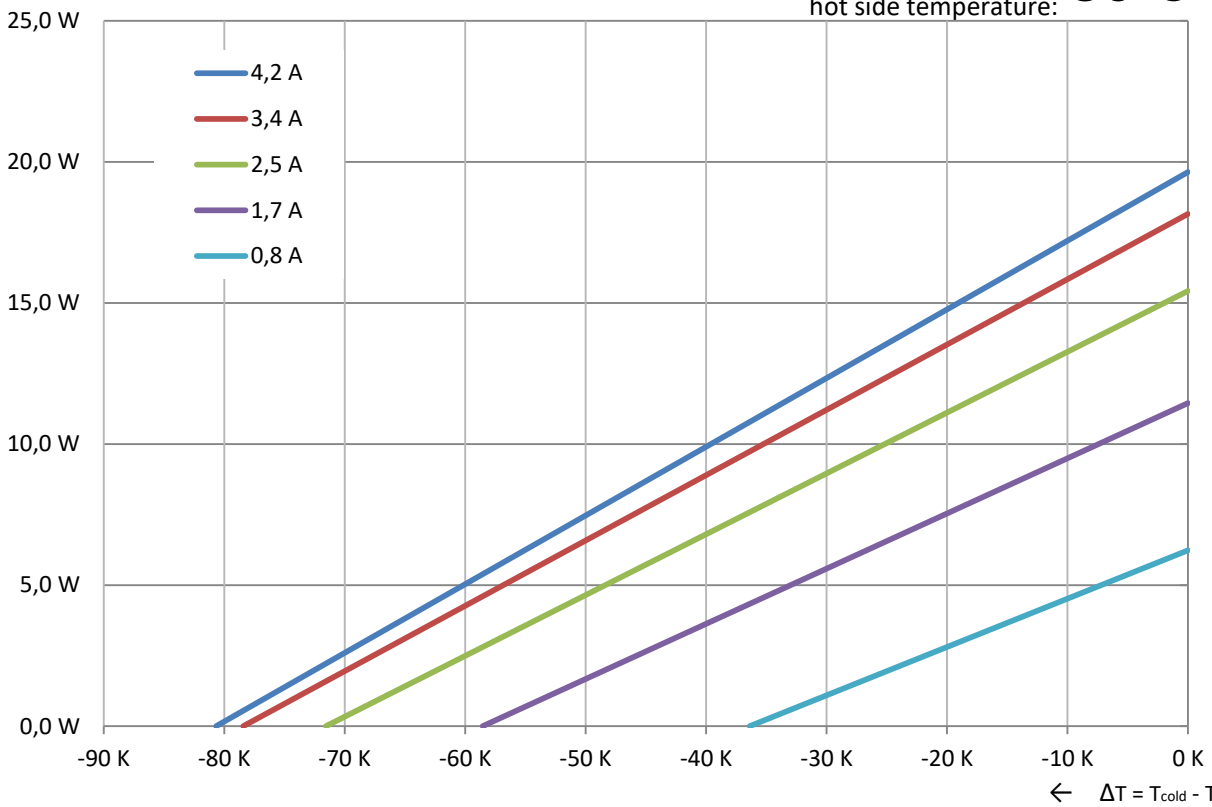
$R_{\text{th } 25^{\circ}\text{C}} = 6,89 \text{ K/W}$

← $\Delta T = T_{\text{cold}} - T_{\text{hot}}$

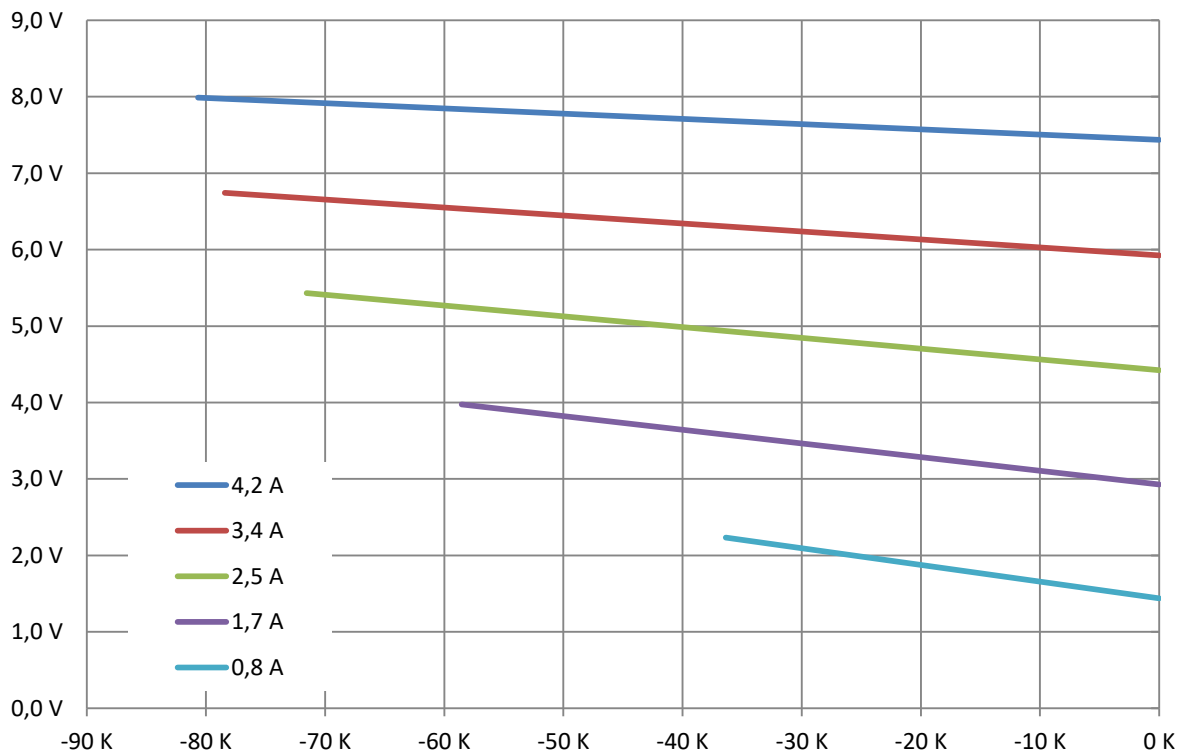
QC-63-1.0-3.9AS

Thot:
50°C

cooling power
↑



module voltage



$R_{\text{th } 50^{\circ}\text{C}} = 7,21 \text{ K/W}$

← $\Delta T = T_{\text{cold}} - T_{\text{hot}}$