

Wire wizard building from the ground up

Coil setup the shape of the finished coil

Inner diameter

4,5

mm

Wraps

8

Leg length

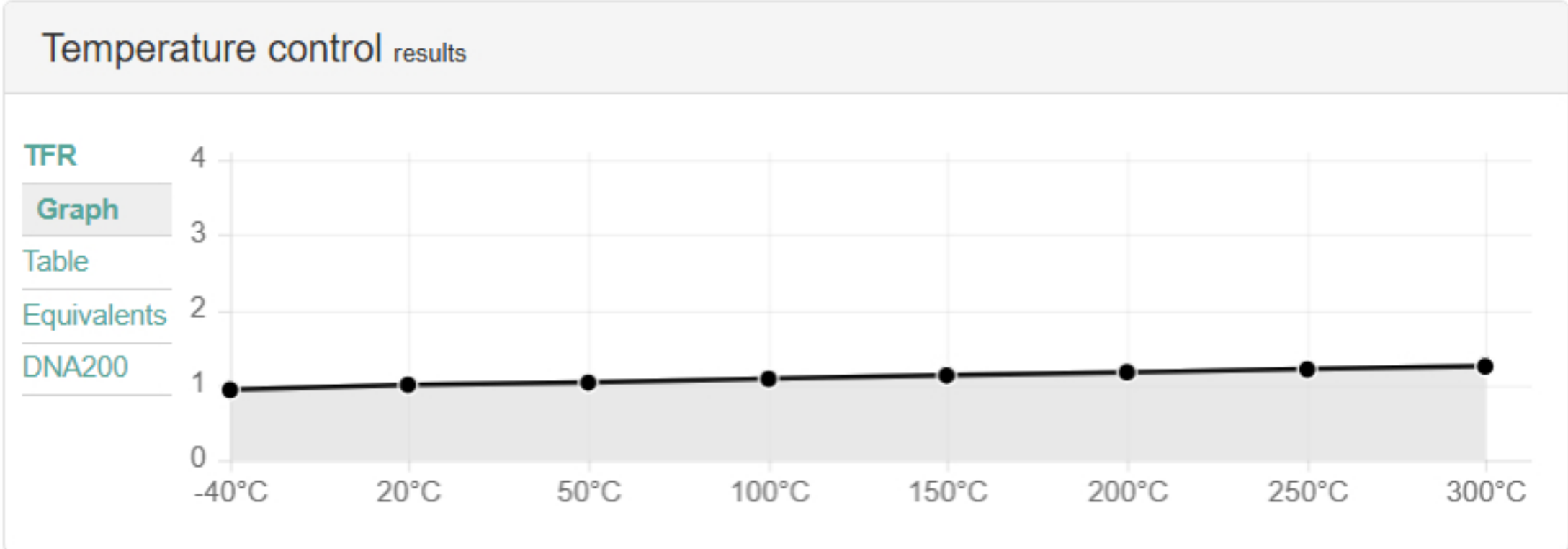
10

mm

Wrap spacing

0,05

mm



View

☒ Celsius ☐ Fahrenheit

☒ Show results for all components

[Custom materials](#)

Wire builder

Generation Love

Dating-Portal für die Ukraine

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Zur Website

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Web Companion

Clapton

Results

Resistance	1.153 Ω
... per unit length	8.16 Ω/m
TCR in vaping range	880 ×10 ⁻⁶
TC precision	1014
Heat flux per Watt	1.14 mW/mm²
Heat capacity	102.34 mJ/K
Current per Volt	867.47 mA
Power dissipated	100.00 %
Width	0.76 mm
Thickness	0.36 mm
Length	141.35 mm
Surface area	879.61 mm²
Cross section area	0.10 mm²
Volume	25.59 mm³
Mass	204.68 mg
Density	8.00 g/ccm

Clapton wire

Core

Parallel

Resistance1.156 Ω... per unit length8.18 Ω/mTCR in vaping range880 ×10⁻⁶TC precision1017Heat flux per Watt3.74 mW/mm²Heat capacity53.29 mJ/KCurrent per Volt864.79 mAPower dissipated99.69 %Width0.60 mmThickness0.20 mmLength141.35 mmSurface area266.44 mm²Cross section area0.09 mm²Volume13.32 mm³Mass106.58 mgDensity8.00 g/ccm

Parallel wires

Single wire

Resistance3.469 Ω... per unit length24.54 Ω/mTCR in vaping range880 ×10⁻⁶TC precision3052Heat flux per Watt3.74 mW/mm²Heat capacity17.76 mJ/KCurrent per Volt288.26 mAPower dissipated33.23 %Diameter0.20 mmLength141.35 mmSurface area88.81 mm²Cross section area0.03 mm²Volume4.44 mm³Mass35.53 mgDensity8.00 g/ccm

Single wire

Resistance3.469 Ω... per unit length24.54 Ω/mTCR in vaping range880 ×10⁻⁶TC precision3052Heat flux per Watt3.74 mW/mm²Heat capacity17.76 mJ/KCurrent per Volt288.26 mAPower dissipated33.23 %Diameter0.20 mmLength141.35 mmSurface area88.81 mm²Cross section area0.03 mm²Volume4.44 mm³Mass35.53 mgDensity8.00 g/ccm

Single wire

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Wrap

Single wire

Resistance374.217 Ω... per unit length153.39 Ω/mTCR in vaping range880 ×10⁻⁶TC precision329178Heat flux per Watt0.01 mW/mm²Heat capacity49.05 mJ/KCurrent per Volt2.67 mAPower dissipated0.31 %Diameter0.08 mmLength2439.72 mmSurface area613.17 mm²Cross section area0.01 mm²Volume12.26 mm³Mass98.11 mgDensity8.00 g/ccm

SS 316

Round

AWCAWG0,08mm