Thermoelectric Cooler Element, 5.6 A

TEC3-6



Description

Thorlabs' 5.6 A Single-Stage TEC Element is built with thermally conductive aluminum oxide ceramics. It has solid state reliability and high strength for rugged environments. It has superior nickel diffusion barriers on elements and a porched configuration for improved leadwire strength.

Performance Values

Hot Side Temperature	27 °C	50 °C
ΔT_{max}[a]	65 °C	73 °C
Q_{max}	13.0 W	14.0 W
I_{max}[b]	5.6 A	5.6 A
V_{max}[b,c]	3.6 V	4.1 V
AC Resistance	0.50 Ω	-

a. Environment: 1.0 atm Dry N_2
b. Do not exceed I_{max} or V_{max} when operating the module.
c. DC Voltage

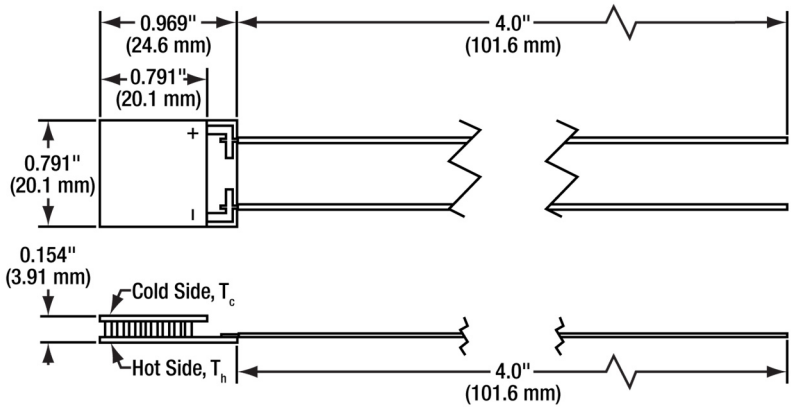
Mechanical Characteristics

Dimensions		
	Length	Width
Hot Side	0.969" (24.6 mm)	0.791" (20.1 mm)
Cold Side	0.791" (20.1 mm)	0.791" (20.1 mm)

Common Dimensions			
Height	Flatness	Parallelism	Lead Length
0.154" ± 0.005" (3.91 mm ± 0.03 mm)	0.002" (0.05 mm)	0.003" (0.08 mm)	4.0" (101.6 mm)

Additional Characteristics	
Ceramic Material	Alumina (Al_2O_3)
Leads	4.0" (101.0 mm), 20 AWG, Stranded, PTFE
Max. Operating Temp.	130 °C

Drawing



Performance Graphs

