



  
CENTUM<sup>®</sup> C3

## Best-in-class Thermoelectric coolers

CENTUM<sup>®</sup> C3 delivers **industry-leading temperature difference** and **cooling density** with the thickness of a single-stage chip, leveraging patented multi-stage architecture and compact form factors

**1.2x** | Temperature  
Difference

**2x** | Cooling  
Density

## Deep cooling across multiple applications

### Optoelectronics



Optical Transceivers  
Pump Lasers

### Imaging Sensors



IR/CCD/CMOS  
LiDAR  
AR/VR

### Refrigeration



Consumer  
Medical  
Industrial

### Others



Instrumentation  
Aerospace/Defense

## Contact us for all your TEC needs



**Custom design**



**Rapid prototyping**



**Made in USA**

## Standard available models

	<i>Dimensions</i> (mm)	$T_h$ (°C)	$\Delta T_{max}$ (°C)	$Q_{max}$ (Watts)	$I_{max}$ (Amps)	$V_{max}$ (DC Volts)	$R_{AC}$ ( $\Omega$ )
<b>CENTUM C3-21-21-7</b>	10x12x2.8	27	97	3.0	7.1	1.9	0.23
		50	110	3.7	7.0	2.1	
<b>CENTUM C3-38-38-7</b>	12x15x2.8	27	97	5.3	7.1	3.4	0.41
		50	110	6.6	7.0	3.8	
<b>CENTUM C3-71-71-7</b>	22x22x2.8	27	97	10	7.1	6.25	0.78
		50	110	13	7.0	6.95	
<b>CENTUM C3-127-127-7</b>	29x29x3.3	27	97	18	7.1	11.4	1.5
		50	110	22	7.0	12.7	
<b>CENTUM C3-238-238-7</b>	40x40x3.7	27	97	34	7.1	22	2.7
		50	110	42	7.0	24	

## Customization options

### Substrate

Ceramic (ALN)

Ceramic (ALO)

Metal

### Finishing

Sealing/Lapping

Substrate Metalization

Lead Attachment

### Design

Form Factors

System Integration

System Optimization