



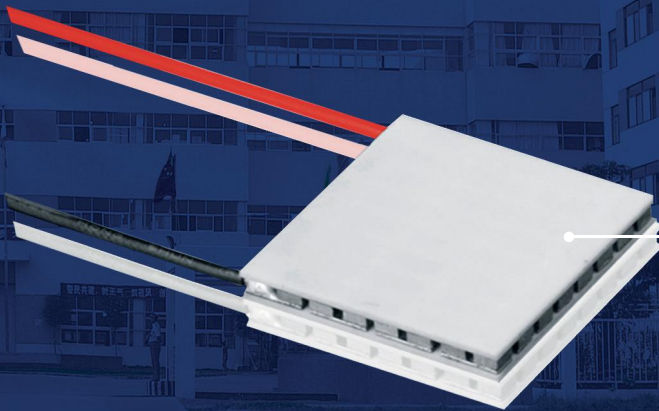
ONE OF THE FASTEST-GROWING TECH
COMPANIES IN THERMOELECTRIC INDUSTRY

For Any Technical Questions, Please Contact at info@nodesus.com



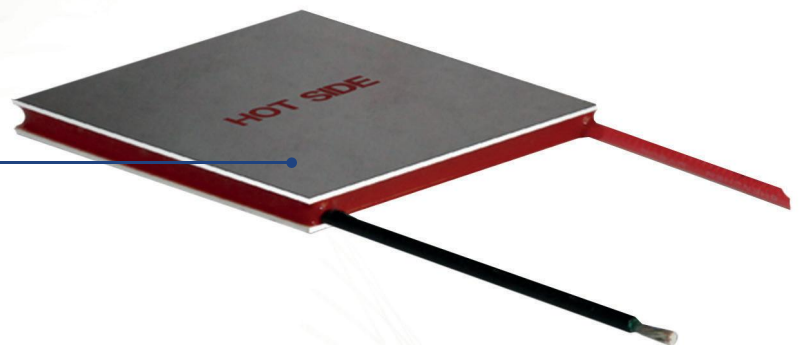
PRODUCTS

Fuxin designs and manufactures thermoelectric coolers, thermoelectric generators for multiple industries.

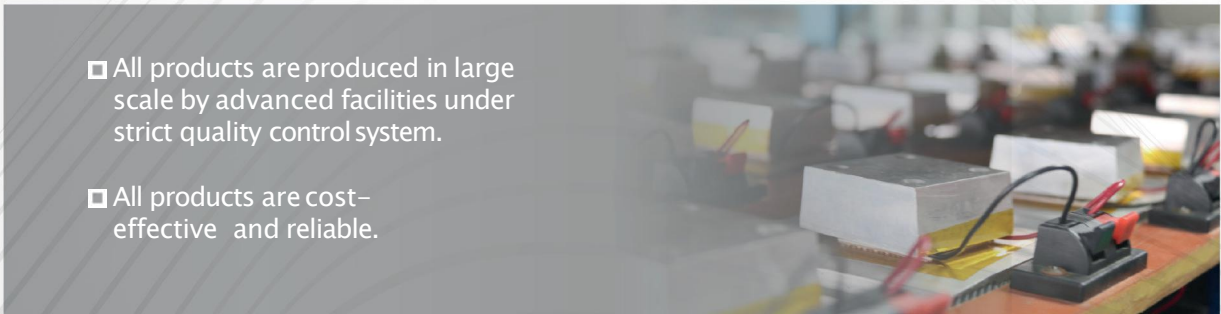


TEC
Thermoelectric Cooler

TEG
Thermoelectric Generator



- ❑ All products are produced in large scale by advanced facilities under strict quality control system.
- ❑ All products are cost-effective and reliable.



APPLICATIONS



Photonics



Telecom



Medical / Analytical



Industrial / Commercial



Consumer Products



Automotive

TEC ADVANTAGES

Fuxin TECs take advantage of Peltier effect of semiconductor materials to achieve cooling or heating functions. They have the following features.



Low Noise



Small & Light



Precise Temp Control



Environmental Friendly



No Vibration



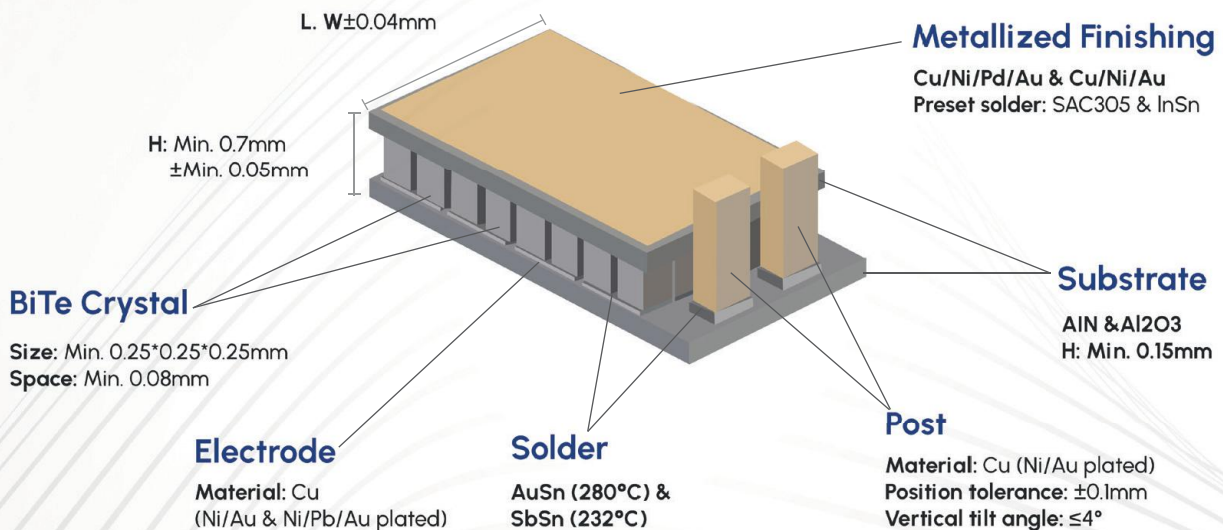
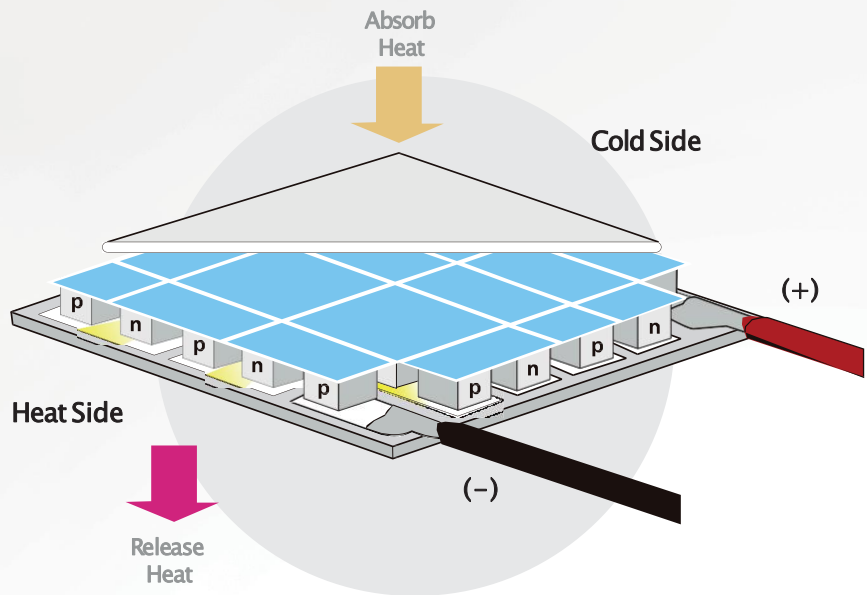
Hot & Cold



High Reliability



Point to Point Cooling



Lighter dimension tolerance available as required.

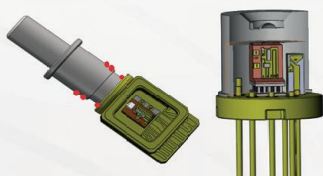
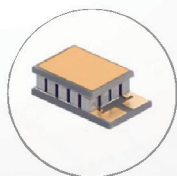
MICRO TECs

The Micro TECs are miniature thermoelectric coolers specially developed to satisfy demanding requirements in the optical communication field. They are made of high-performance thermoelectric materials and produced by advanced and

automated manufacturing process. These TECs have the features of miniaturization, higher COP and reliability, and they are ideal for precise temperature control.

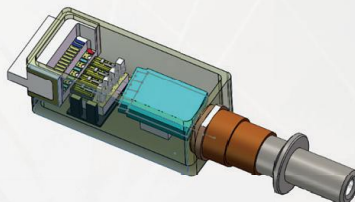
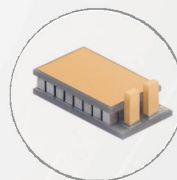
Packaging

TO



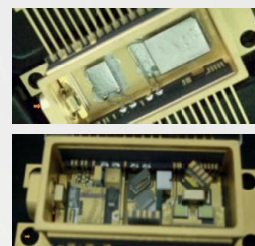
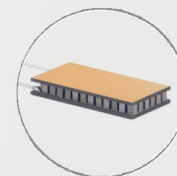
- 10G PON OLT 1577nm EMLTO
- 1.25G/10G/25G DWDM TOSA
- 5G Trans. 25G EMLTOSA
- 5G MWDM W/ cooling 25G DFBTOSA

BOX



- 100G LR4 4X25G DFB TOSA
- 100G ER4 4X25G EMLTOSA

BUTTERFLY



- The transmitting device ITLA in coherent module
- ROSA

Reliability of the TECs can meet international standards GR-468-CORE and MIL-STD-883.

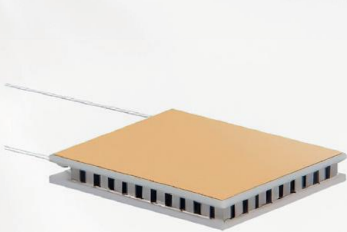
Th=27°C

TEC Model NO.	ΔT_{max} (°C)	Q_{Cmax} (W)	U_{max} (V)	I_{max} (A)	Size (mm)			
					W	L1	L2	H
TEM1-008012A-NM-3B	70	0.6	1.0	11	16	2.2	16	0.9
TEM1-010010A-NM-3B	70	0.7	1.2	1.0	15	2.6	2.0	0.8
TEM1-010012A-NM-3B	70	0.9	1.2	1.2	18	2.6	2.0	0.8
TEM1-020016A-NM-3P	70	2.2	2.4	16	2.9	5.4	4.7	12
TEM1-020012A-NM-3P	70	2.3	2.4	12	3.4	6.2	5.5	0.8
TEM1-028014A-NM-3P	70	2.9	3.2	14	4.0	5.1	4.4	12
TEM1-038021A-NM-3P	70	5.7	4.6	2.1	4.0	6.8	5.9	0.9
TEM1-024020A-NM-3B	70	3.7	2.8	2.1	4.0	5.8	5.0	12
TEM1-036025A-NM-3B	70	6.8	4.2	2.6	4.0	8.1	7.4	0.9
TES1-038027A-NM-2W	70	7.2	4.6	2.7	6.1	12.2	12.2	17
TES1-063034A-NM-2P	70	14.8	7.6	3.2	6.0	16.5	15.5	17

TEC s AND SOLUTIONS – IR

Th=27°C

TEC Model NO.	ΔT_{\max} (°C)	$Q_{c_{\max}}$ (W)	U_{\max} (V)	I_{\max} (A)	Size (mm)			
					W	L1	L2	H
TES1-031018A-ON-2W	70	3.9	3.7	18	8.0	8.0	8.0	1.7
TES1-071015A-ON-2W	70	7.0	8.4	15	12.0	11.0	11.0	2.0
TES1-035020A-OM-2W	70	5.3	4.2	2.3	12.0	12.0	12.0	3.2
TES1-031040A-OH-2W	70	8.6	3.7	4.0	18.0	18.0	18.0	2.8
TES1-049050A-ON-2W	70	17.2	5.9	4.7	9.0	15.0	15.0	2.0
TES1-059038A-OH-2W	70	15.5	7.0	3.8	18.0	21.0	21.0	2.8



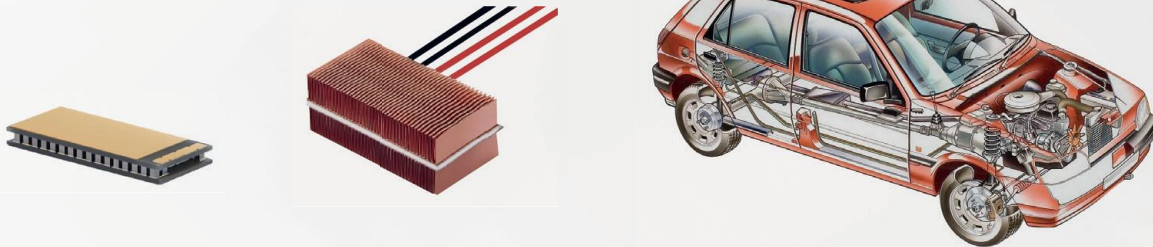
TEC s AND SOLUTIONS – PCR (MEDICAL)

Th=27°C

TEC Model NO.	ΔT_{\max} (°C)	$Q_{c_{\max}}$ (W)	U_{\max} (V)	I_{\max} (A)	Size (mm)			
					W	L1	L2	H
TEC1-127050A-FG-2WS	70	44.1	15.5	5.0	30.0	30.0	30.0	3.2
TEC1-127040A-FG-2WS	70	36.8	15.5	4.2	30.0	30.0	30.0	3.4
TEC1-127120A-FG-2WS	70	120.0	15.6	12.6	40.0	40.0	40.0	3.5
TEC1-220280A-FG-2WS	70	433.0	26.6	28.1	50.0	54.0	50.0	3.0



TECs AND SOLUTIONS - AUTOMOTIVE



Th=27°C

TEC Model NO.	ΔT_{\max} (°C)	$Q_{C\max}$ (W)	U_{\max} (V)	I_{\max} (A)	Size (mm)			
					W	L1	L2	H
TEM1-054018A-NM-3B	70	6.6	6.5	18	5.3	12.5	12.5	13
TES1-090050A-OG-2WS	70	31.5	10.9	5.0	16.0	33.0	30.0	2.5
TES1-128041B-OG-2WS	70	36.0	15.4	4.1	30.0	34.0	30.0	3.4
TES1-160040A-CMM-2WS	70	44.4	19.4	4.0	54.0	30.0	27.7	3.5

GET DATASHEET

Fuxin has more TECs (for much more applications) including single-stage, multi-stage, high power, micro, or customized for specific needs. Please contact us to obtain datasheets of Fuxin TECs, or tell us your needs in application.

