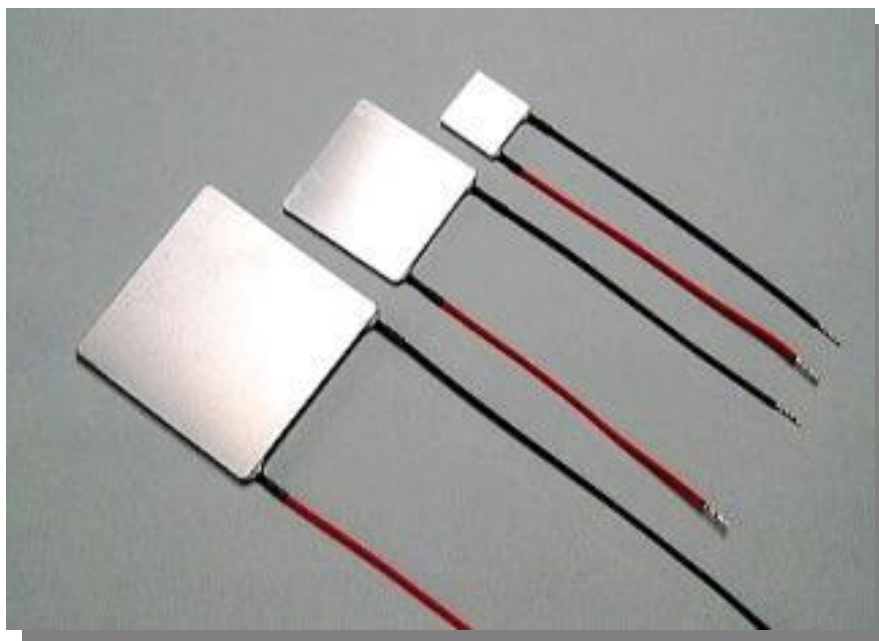


Aluminum-mold Peltier module

UT2020-AL-CE/UT4040-AL/UT-7070-AL

Top Reliability

Heat&Cool Stress test between (10°C↔100°C)



Feature

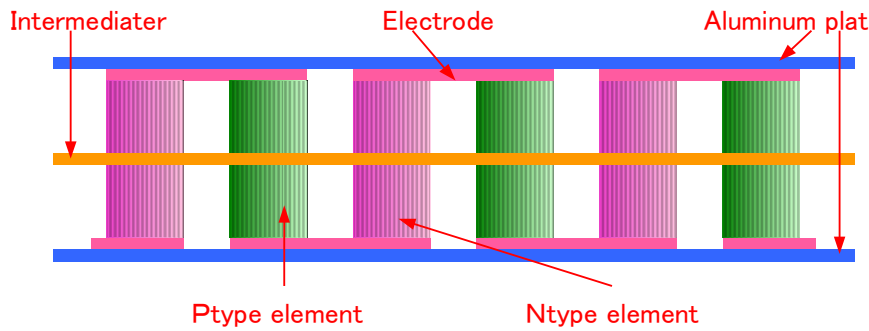
Heat transfer speed of the record level was realized by joining a P/N type thermoelectric semiconductor Without a rigid body to the aluminum on the surface of direct By arranging a support medium in the Center of a P/N type thermoelectric semiconductor, thermal-bent is eased and the tolerance to heat stress is Improved. (it can be equal to 100,000 heating / cooling repetition experiments or more.) with the Improvement in tolerance to heat stress, it succeeded in enlargement (UT7070-AL) of the difficult Module in the other company it corresponds to the dew condensation at the time of low temperature by Waterproofing specification. It is perfect made in japan in order to inspect to all the modules before Shipment, compared with 0% of the rate of initial failure, and the overseas peltier module of the Other company, it is preeminent reliability.

Spec

MODEL	UT2020-AL	UT2020-CE	UT4040-AL	UT7070-AL
Dimension (mm)	22 × 22		47 × 48	72 × 73
Dimension H (mm)	3.45	3.73	3.56	5.00
Max Current (A)	3.2		7.0	
Max Voltage (V)	7.0		19.0	28.0
Max. Temp-Difference (°C) Th=50°C	67.0	70.0	76.5	72.0
Max. Absorption (W)	13.0		64.0	132.0
Max. TempTolerrance (°C)	150			
W e i g h t (g)	7.5	8.0	26.0	90.0

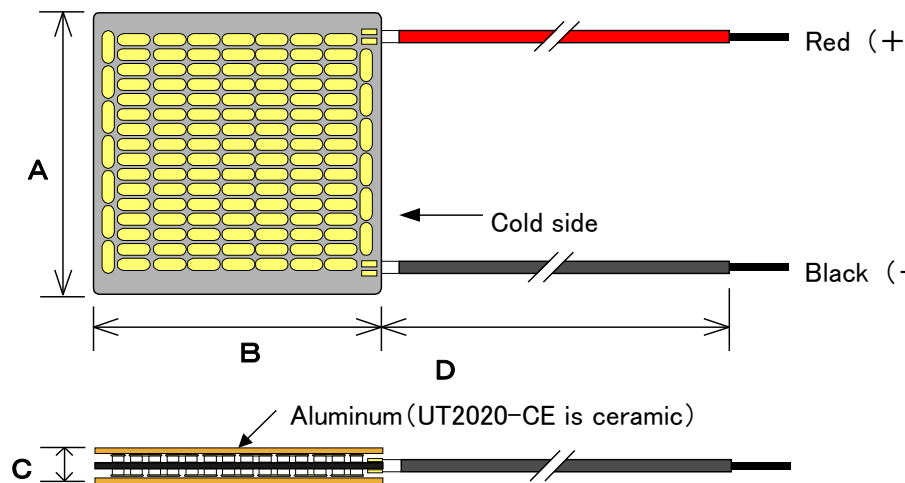
Structure

By putting a P/N semiconductor device with the support medium of two sheets the general peltier Module is maintaining form however, at sensor controls Co, it succeeded in arranging centering on the Support medium of one sheet by development of original semiconductor technology, and fixing Since the quantity of heat of a P/N semiconductor device gets across to the aluminum on the surface of direct as a predominance point of considering a support medium in the center, heat transfer speed Is increased moreover in order that a central support medium may also play a role of a heat absorber Compared with the product of the other company its tolerance to heat stress is high, and it does not Deteriorate in a long-life life



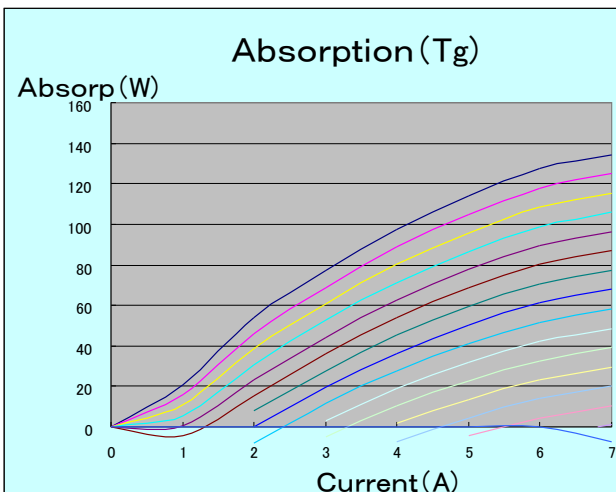
Dimensions

MODEL	A	B	C	D
UT2020-AL	22mm	22mm	3.45mm	130mm
UT2020-CE	22mm	22mm	3.73mm	130mm
UT4040-AL	47mm	48mm	3.56mm	130mm
UT7070-AL	72mm	73mm	5.00mm	210mm



Performance Graph

■ UT7070-AL



■ UT4040-AL

