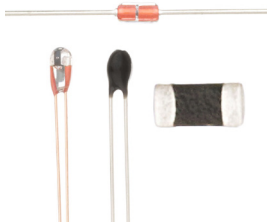




# Epoxy-coated and glass-sealed NTC thermistors for temperature sensing



Eaton's NTC thermistors are cost-effective temperature sensors that meet the temperature sensing needs of a wide range of electronic applications.

### Product description

Eaton's epoxy-coated NTC thermistors are cost-effective temperature sensors that meet the temperature sensing needs of a wide range of electronic applications. They come in different resistances, beta values, tolerances, and lead lengths. The glass-coated and encapsulated NTC thermistors offer long-term stability and reliability, as well as fast thermal responses. They are suited for temperature measurement in extreme temperatures (>250 °C), corrosive atmospheres, or harsh environments.

Eaton's surface-mounted thermistor elements are designed for use on PCBs and ICs. They feature metalized terminations suitable for wire bonding, epoxy, and soldering. Available in standard industry footprints, NTCs are ideal for use in automated assembly processes. Key applications include IoT, commercial appliances, portable energy storage systems, UPS, and more.

### Features and benefits

- Multiple packaging types to offer an ideal balance of performance and cost
- High-temperature options in glass-coated and encapsulated designs
- Multiple resistances, beta values, tolerances, and lead configurations
- Customization options exist for volume applications

## Applications

	NRBG Single ended Glass sealed	NRBE Single ended Epoxy coated	NRMx Single ended Epoxy coated	NDBG Axial/diode Glass encap.	NRLx Single ended Glass sealed	NTxx PCB SMD 0402 - 0805	
Consumer	White goods	x	x	x	x	x	
	Home appliances	x	x	x	x	x	
	Smart wearable devices			x		x	
	Power banks			x	x		
Power & energy	Tablets, laptops and PCs	x	x	x	x	x	
	Photovoltaic products (sensors, junction box, etc)	x	x	x		x	
	Wind (control units, backup safety systems)	x				x	
	Grid & power distribution (smart grid)	x			x	x	
	Energy storage (battery and supercapacitor)		x	x		x	
	Electric vehicle charging and infrastructure	x	x	x		x	
	Uninterruptible power supply	x	x	x	x	x	
	Power converters and inverters	x	x		x	x	
	Smart meters (water, gas, electric)	x	x	x		x	
	Imaging systems (X-ray, CT, MRI)	x	x	x	x	x	
	Medical	Medical appliances (refrigeration, heating)	x	x		x	x
		Meters (blood glucose, wearables)	x	x	x	x	x
Thermometers				x	x		
Sterilizers				x	x		
IoT	Satellite and GPS systems	x	x	x	x		
	Smart thermostats and climate control	x	x	x	x	x	
	Agriculture and marine monitoring equipment and instrumentation	x	x	x		x	
	Energy measurement and metering	x	x	x		x	
	Battery management systems	x	x	x		x	
Industrial	Factory automation, process control and instrumentation	x	x	x	x	x	
	Manufacturing equipment and fabrication tools	x	x	x	x	x	
	Lighting systems and ballasts; LEDs				x	x	
	Heating, ventilation, air conditioning systems, refrigeration and freezers	x	x	x		x	
	Electric motors, motor control, motion control	x	x	x		x	
	Safety and detection systems (fire, gas, thermostat)	x	x	x		x	
	Surveillance and monitoring systems	x		x		x	

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