

CSC Series

NTC Power Thermistor



◆ Product Introduction

The NTC power thermistor is a circuit protection and temperature control component with a negative temperature coefficient characteristic. Its core is made of semiconductor ceramic materials such as manganese oxide and cobalt oxide, functioning as an "intelligent inrush current suppressor" and "temperature sensor" for equipment.

Its operating mechanism stems from the unique properties of semiconductor materials: when temperature rises, carrier concentration within the material increases significantly, causing resistance to decrease exponentially. Conversely, it maintains high resistance at low temperatures. This characteristic enables precise response to circuit startup surges and temperature variations.

◆ Features

1. Strong inrush current suppression capability
2. High current tolerance, long lifespan, and high reliability
3. Easy PCB mounting, comprehensive product series, and wide application range

◆ Applications

1. High-power switching power supplies
2. Converter power supplies
3. Uninterruptible Power Supplies (UPS)

◆ Coding principles

1	2	3	4	5	6	7	8	9	10	11
Product Type			Body size		resistance value		resistance value accuracy	packaging method		pin length (optional suffix)
CSC	NTC power thermistor	05	Φ5mm	0R5	0.5Ω	L	±15%	R	radial	A
		08	Φ8mm	2R5	2.5Ω	M	±20%			
		10	Φ10mm	080	8Ω	H	±25%			
		13	Φ13mm	200	20Ω	N	±30%			
		15	Φ15mm	500	50Ω	T	±40%			
		20	Φ20mm	121	120Ω	P	±50%			
		25	Φ25mm							
		30	Φ30mm							