



**THE DATASHEET OF  
NTE8030**





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## NTE8000 thru NTE8035 Radial Lead Thermal Cutoff (Thermal Fuse)

### Description:

The TCO (Thermal Cut-Off) responds to temperature by interrupting an electrical circuit when the operating and/or environmental temperature exceeds the thermal rating of the device. NTE's radial lead TCOs accomplish this when the internal fusible alloy is melted by reaching the temperature of the melting point of the alloy, forming two separate balls at the edges of the leads by surface tension of the alloy to permanently open the circuit.

Axial-lead TCO devices presently predominate over radial-lead devices. This results, at least in part, from design difficulties that exist in manufacturing a reliable, inexpensive radial-lead TCO device. However, in many circuit applications radial-lead devices are preferable since they take up a smaller area on a printed circuit board. Their compact size enables ease of assembly into the smallest of transformers ensuring total thermal protection

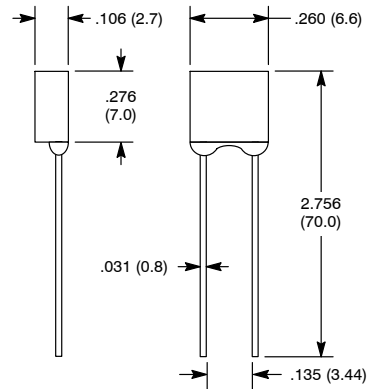
### Features

- Maximum Rating: 5 Amps, 250 Volts
- Typical Operating Temperature Tolerance +1-2°C
- Full 2 3/4" leads to fit all replacement configurations
- All types meet UL E214712 and VDC-40017057
- RoHS Compliant

### Characteristics

NTE Type No.	Diag. No.	Functioning Temperature		Holding Temperature		Maximum Temperature	
		°C	°F	°C	°F	°C	°F
8000	729	76	168	53	127	200	392
8005	729	86	187	61	142	200	392
8010	729	102	216	77	171	200	392
8015	729	115	239	89	192	200	392
8020	729	130	266	103	217	200	392
8025	729	136	277	111	232	200	392
8030	729	145	293	118	244	200	392
8035	729	150	302	123	253	200	392

Diagram 729



Note 1. Temperature sensitive devices. **Do not** store above +48°C (+120°F).

Note 2. With proper air flow, heat generation below 5 Amps is minimal, above 5 Amps the upper limit on the current capacity will depend on the environment for each specific application.


Note 3. A general rule of thumb for continuous operating temperature for thermal cut-offs is 30°C **less** than the Maximum Opening Temperature.



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