

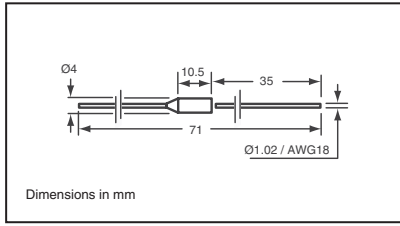


## Thermal Fuses



**Description:**

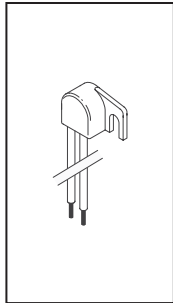
Thermal fuses are components which will automatically open a circuit and switch off an appliance, if the permissible operating temperature of the appliance is exceeded.



Temperature T <sub>F</sub>	Temperature T <sub>H</sub>	Digi-Key Part No.	Price Each			Cantherm Part No.
			1	10	50	
77°C	55°C	317-1125-ND	.78	.69	.50	SDJ1-DF077S
84°C	60°C	317-1126-ND	.78	.69	.50	SDJ1-DF084S
91°C	67°C	317-1127-ND	.78	.69	.50	SDJ1-DF091S
98°C	76°C	317-1128-ND	.78	.69	.50	SDJ1-DF098S
100°C	78°C	317-1129-ND	.78	.69	.50	SDJ1-DF100S
104°C	80°C	317-1130-ND	.78	.69	.50	SDJ1-DF104S
119°C	95°C	317-1132-ND	.78	.69	.50	SDJ1-DF119S
128°C	106°C	317-1133-ND	.78	.69	.50	SDJ1-DF128S
141°C	117°C	317-1134-ND	.78	.69	.50	SDJ1-DF141S
144°C	120°C	317-1135-ND	.78	.69	.50	SDJ1-DF144S
152°C	128°C	317-1136-ND	.78	.69	.50	SDJ1-DF152S
192°C	162°C	317-1139-ND	.78	.69	.50	SDJ1-DF192S
240°C	200°C	317-1142-ND	.78	.69	.50	SDJ1-DF240S

T<sub>F</sub> = Functioning Temperature T<sub>H</sub> = Holding Temperature

## Thermal Protectors



Switching Temperature	Digi-Key Part No.	Price Each			Cantherm Part No.
		1	10	50	
<b>Normally Closed</b>					
60°C	317-1395-ND	5.80	5.08	3.63	B1206025AEDA0GE
70°C	317-1396-ND	5.80	5.08	3.63	B1207025AEDA0GE
75°C	317-1397-ND	5.80	5.08	3.63	B1207525AEDA0GE
85°C	317-1398-ND	5.80	5.08	3.63	B1208525AEDA0GE
95°C	317-1399-ND	5.80	5.08	3.63	B1209525AEDA0GE
105°C	317-1400-ND	5.80	5.08	3.63	B1210525AEDA0GE
115°C	317-1401-ND	5.80	5.08	3.63	B1211525AEDA0GE
125°C	317-1402-ND	5.80	5.08	3.63	B1212525AEDA0GE
135°C	317-1403-ND	5.80	5.08	3.63	B1213525AEDA0GE
150°C	317-1404-ND	5.80	5.08	3.63	B1215025AEDA0GE
160°C	317-1405-ND	5.80	5.08	3.63	B1216025AEDA0GE
<b>Normally Open</b>					
60°C	317-1447-ND	7.18	6.28	4.49	B1206015AEDA0GE
65°C	317-1448-ND	7.18	6.28	4.49	B1206515AEDA0GE
70°C	317-1449-ND	7.18	6.28	4.49	B1207015AEDA0GE

Switching Temperature	Digi-Key Part No.	Price Each			Cantherm Part No.
		1	10	50	
75°C	317-1450-ND	7.18	6.28	4.49	B1207515AEDA0GE
80°C	317-1451-ND	7.18	6.28	4.49	B1208015AEDA0GE
85°C	317-1452-ND	7.18	6.28	4.49	B1208515AEDA0GE
90°C	317-1453-ND	7.18	6.28	4.49	B1209015AEDA0GE
95°C	317-1454-ND	7.18	6.28	4.49	B1209515AEDA0GE
100°C	317-1455-ND	7.18	6.28	4.49	B1210015AEDA0GE
105°C	317-1456-ND	7.18	6.28	4.49	B1210515AEDA0GE
110°C	317-1457-ND	7.18	6.28	4.49	B1211015AEDA0GE
115°C	317-1458-ND	7.18	6.28	4.49	B1211515AEDA0GE
120°C	317-1459-ND	7.18	6.28	4.49	B1212015AEDA0GE
125°C	317-1460-ND	7.18	6.28	4.49	B1212515AEDA0GE
130°C	317-1461-ND	7.18	6.28	4.49	B1213015AEDA0GE
135°C	317-1462-ND	7.18	6.28	4.49	B1213515AEDA0GE
140°C	317-1463-ND	7.18	6.28	4.49	B1214015AEDA0GE
145°C	317-1464-ND	7.18	6.28	4.49	B1214515AEDA0GE
150°C	317-1465-ND	7.18	6.28	4.49	B1215015AEDA0GE
155°C	317-1466-ND	7.18	6.28	4.49	B1215515AEDA0GE
160°C	317-1467-ND	7.18	6.28	4.49	B1216015AEDA0GE

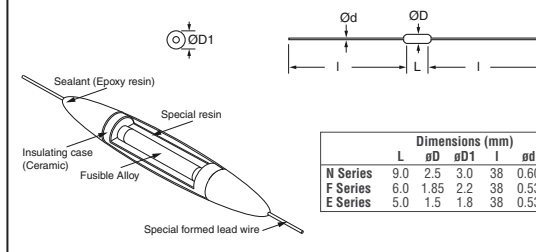
## Panasonic Thermal Cutoffs (TCO) / Thermal-Links — EYP Type

**Features:** • **Small and Insulation Type:** TCO is compact and insulated, featuring quick temperature response, and mountable in a small space without insulation or protection • **High Reliability:** TCO opens reliably when the equipment becomes abnormal, and is not resettable • **Solid Structure:** Unique formed lead provides reliable TCO connection and provides easy assembly handling. (Axial lead type only) • **Non-Cadmium Alloy:** TCO uses specially selected non-cadmium alloy • **Thin Type:** Thickness is less than 1mm. Available for spot welding.

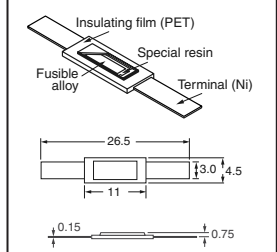
**Recommended Applications:** Transformers, solenoids, ventilation fan, electric fans, small electric motors, dryers, gas home appliances, fluorescent lights, electric shavers, adaptors, heating devices, ICs, batteries, etc. The TCO can be used for overheating protection.

**Approved Safety Standards:** VDE (Germany): N Series: 4811.6-1171-0001; (Japan): 33-xxx (see chart) F Series: 4811.6-4510-1026; E Series: 4811.6-4510-1030  
UL (USA): E60271 BEAB (U.K.): N Series: C0736; F Series: C0738; E Series: C0739  
CSA (Canada): LR67163

### Series N, F and E — Axial Lead Type



### Series MT — Thin Type



Type No. of Approved Standards	Rated Functioning Temp. <sup>1</sup> (°C)	Functioning Temp. <sup>2</sup> (°C)	Maximum Operating Temp. <sup>3</sup> (°C)	Holding Temp. <sup>4</sup> (°C)	Maximum Temp. (°C) <sup>5</sup>		Electrical Rating			Approved Safety Standards				Digi-Key Part No.	Price Each			Panasonic Part No.	
					UL, VDE, BEAB	CSA	AC/DC	Amp (A)	Volt (V)	UL	CSA	VDE	BEAB		1	10	100		
<b>N Series — RoHS Compliant</b>																			
N082	86	82±2	52	56	200	150	AC	3.0	125	33-627	○	○	○	○	P10917-ND	.61	.36	.25	EYP-2BN082
							AC	2.0	250		○	○	○	○					
							DC	4.0	50		○	○	○	○					
N109	114	110±3	76	86	200	150	AC	3.0	125	33-634	○	○	○	○	P10920-ND	.61	.36	.25	EYP-2BN109
							AC	2.0	250		○	○	○	○					
							DC	5.0	50		○	○	○	○					
N110	115	110+3/-2	76	86	200	150	AC	3.0	125	33-634	○	○	○	○	P10921-ND	.61	.36	.25	EYP-2BN110
							AC	2.0	250		○	○	○	○					
							DC	5.0	50		○	○	○	○					
N143	145	141±2	105	115	200	180	AC	3.0	125	33-621	○	○	○	○	P10925-ND	.61	.36	.25	EYP-2BN143
							AC	2.0	250		○	○	○	○					
							DC	6.0	50		○	○	○	○					
<b>F Series</b>																			
F115	115	110+3/-2	76	90	200	150	AC	2.0	125	33-634	○	○	○	○	P10912-ND	.61	.36	.25	EYP-1BF115
							AC	1.0	250		○	○	○	○					
							DC	4.0	50		○	○	○	○					
<b>E Series</b>																			
E115	115	110±2	76	93	200	150	AC	1.5	125	33-634	○	○	○	○	P10907-ND	.61	.36	.25	EYP-05BE115
							AC	0.5	250		○	○	○	○					
							DC	3.0	50		○	○	○	○					
<b>MT Series †</b>																			
MT102	102	98±2	65	70	150	150	DC	2.0	50	—	○	—	—	—	P10934-ND	.82	.52	.38	EYP-2MT102
MT102A	102	98±2	65	70	150	150	DC	2.0	50	—	○	—	—	—	P10935-ND	.82	.52	.38	EYP-2MT102A
MT102B	102	98±2	65	70	150	150	DC	2.0	50	—	○	—	—	—	P10936-ND	.82	.52	.38	EYP-2MT102B

† Std. DC Resistance is <15mΩ, A = <16mΩ, B = <17mΩ ♦ RoHS Compliant

**NOTES:**

- Rated Functioning Temperature (UL: TF, CSA, VDE, BEAB: T<sub>F</sub>):** The temperature at which a TCO changes its state of conductivity to open circuit with loading detection current only. Tolerance: ±2°C; UL, CSA, VDE, BEAB: 0/-10°C
- Functioning Temperature (Fusing-off temperature):** The functioning temperature at which a TCO changes its state of conductivity to open circuit in the ambient air oven which increases temperature by 1°C per minute and with loading detection current of 0.1A or less.
- Maximum Operating Temperature:** The maximum temperature at which a TCO can be maintained while conducting rated current for 3000 h.
- Holding Temperature (UL: T<sub>H</sub>, CSA: T<sub>H</sub>, VDE, BEAB: T<sub>C</sub>):** The maximum temperature at which a TCO can be maintained while conducting rated current for 168h which will not cause a change in state of conductivity to open circuit.
- Maximum Temperature Limit (UL: T<sub>M</sub>, CSA, VDE, BEAB: T<sub>m</sub>):** The maximum temperature at which a TCO can maintain its mechanical and electrical properties without closing again for 10 minutes after a TCO has changed its state of conductivity.

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