

Specification for Standard Product offering of: MICROTEMP® TCO – One Shot Thermal Fuses

G4, G5, G7 Series

Therm-O-Disc® TCO – One Shot Thermal Fuses:

MICROTEMP® thermal cutoffs from Therm-O-Disc offer an accurate, reliable solution to the need for upper limit temperature protection. Know more commonly as a thermal fuse, thermal link, or TCO, the MICROTEMP® thermal cutoff provides protection against overheating by interrupting an electrical circuit when operating temperatures exceed the rated temperature of the cutoff. Atlantic Components has compiled this specification to highlight the standard, IN STOCK product.

G4:

Rated for continuous operating currents up to 10 amps @ 250 VAC (15 amps @ 120 VAC), the G4 series MICROTEMP® TCO is the industry standard for over-temperature protection.

G5:

Designed for special high current applications, the G5 series MICROTEMP® TCO is rated for operating current up to 16 amps @ 250 VAC (20 amps @ 250 VAC and 25 amps @ 120 VAC at UL/CSA). Similar in appearance to the G4 series, the G5 series has a different internal construction designed for interrupting higher currents.

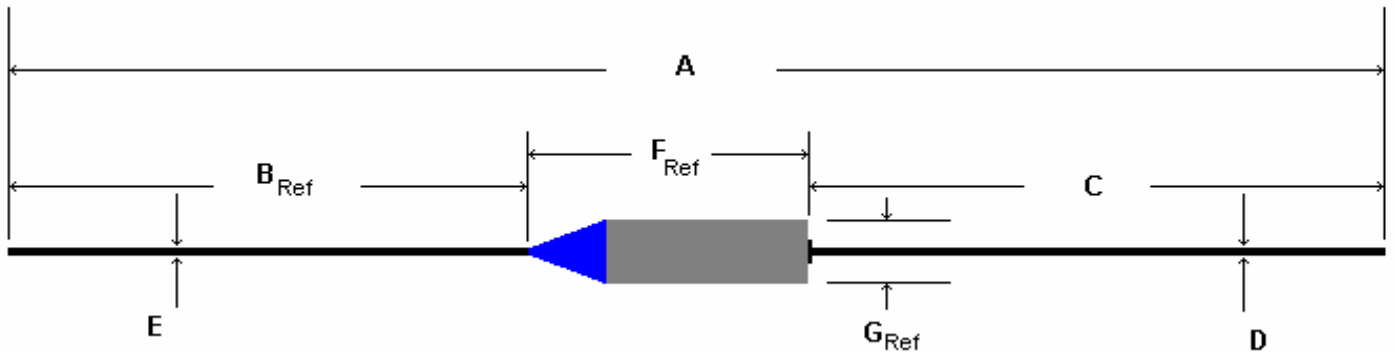
G7:

The G7 series MICROTEMP® TCO is designed to satisfy applications requiring miniaturized components, but do not need maximum current interrupt capability. The G7 is just 1/3 the size of the G4 or G5, and with a current interrupting capability of 5 amps @ 250 VAC.



Don't see what you are looking for? Call us to discuss the exact fuse for your application.

MICROTEMP® TCO Standard Dimensions



Drawing Label →	A	B	C	D	E	F	G
Dimension Name →	Overall	Epoxy Lead	Case Lead	Case Lead Dia	Epoxy Lead Dia	Case	Case Dia
Plating Material →				Tin-Plated Copper	Silver-Plated Copper		
Tolerance +/- →	0.12" (3.0mm)	Reference Only	0.06" (1.5mm)	N/A	N/A	Reference Only	Reference Only
G4	3.26" (82.8mm)	1.30" (33.0mm)	1.38" (34.9mm)	0.04" (1.0mm) 18AWG	0.04" (1.0mm) 18AWG	0.58" (14.7mm)	0.158" (4.0mm)
G5	3.26" (82.8mm)	1.30" (33.0mm)	1.38" (34.9mm)	0.04" (1.0mm) 18AWG	0.04" (1.0mm) 18AWG	0.58" (14.7mm)	0.158" (4.0mm)
G7	3.26" (82.8mm)	1.50" (38.1mm)	1.38" (34.9mm)	0.023" (0.57mm) 23AWG	0.023" (0.57mm) 23AWG	0.38" (9.6mm)	0.118" (3.0mm)

Electrical Rating Summary:

Agency Approval	G4 Series		G5 Series	G7 Series	
	Resistive	Inductive	Resistive	Resistive	Inductive
UL/CSA	10A/250VAC 15A/120VAC	8A/250VAC 14A/120VAC	16A/250VAC 25A/120VAC 21A/240VAC	5A/250VAC 5A/24VDC	4.5A/250VAC 4.5A/120VAC
IEC	10A/250VAC 15A/120VAC	8A/250VAC 14A/120VAC	16A/250VAC	5A/250VAC	4.5A/250VAC 4.5A/120VAC
METI	10A/250V	-	15A/250VAC	5A/250VAC 5A/24VDC	-

KEYS TO ORDERING:

Thermodisc Part Number:

Thermal Cutoff Series	Length of lead on Epoxy Side	Max Open Temperature
G4A	01	098C
G5A	01	098C
G7F	01	098C
<i>Choose the series you need based on voltage and current requirements of your circuit.</i>	<i>01 = Long leads (1.30" on G4 & G5, 1.50" on G7) other lead lengths are available, but 01 is standard, in-stock</i>	<i>Call out temperature in degrees Celsius, three digit format with C at the end. 18 Standard Temps shown on attached pages.</i>

Typical Applications:

MICROTEMP® thermal cutoffs from Therm-O-Disc are applied to a wide variety of applications as a safety limit device. Examples of applications include:

- Air Conditioning
- Home Appliances
- Battery Packs
- Medical & Industrial Laser Systems
- Homeland Security / Safety Devices
- Industrial Controls / Automation
- Cooking Equipment
- Automotive
- Food Warmers / Food Transport
- Power Strips / Surge Protectors
- Transformers / Power Supplies
- Electric Motors

Additional Specifications:

- The TCO part numbers show in this spec are offered as in-stock, standard offerings, but do NOT represent the complete product line offered by Thermodisc.
- Many other styles, configurations and options are available. The full product Specifications and specifications on non-standards can be found in the Thermodisc Master Product Catalog. There is a link to the Thermodisc TCO Product Catalog on the AtCom Homepage.
- Most TCO's that are NOT listed on the following two pages carry a minimum order quantity and some are considered Non-Cancelable, and Non-Returnable.
- **Information on Samples, Pricing, and Delivery is available by dialing 800-433-6600 or 781-933-9966 and speaking to and inside salesperson at Atlantic Components.**

G4 Standard Offering:

Part Number	Max Open Temp T_f °C	Holding Temp T_h °C	Max Overshoot Temp T_m °C
G4A01072C	72	47	100
G4A01077C	77	52	125
G4A01084C	84	59	125
G4A01093C	93	68	140
G4A01098C	98	73	140
G4A01104C	104	79	150
G4A01110C	110	85	150
G4A01117C	117	92	160
G4A01121C	121	96	160
G4A01128C	128	103	160
G4A01144C	144	119	175
G4A01152C	152	127	175
G4A01167C	167	142	210
G4A01184C	184	159	210
G4A01192C	192	167	210
G4A01216C	216	191	375
G4A01229C	229	200	375
G4A01240C	240	200	375

G5 Standard Offering:

Part Number	Max Open Temp T_f °C	Holding Temp T_h °C	Max Overshoot Temp T_m °C
G5A01072C	72	47	175
G5A01077C	77	52	200
G5A01084C	84	59	200
G5A01093C	93	68	215
G5A01098C	98	73	215
G5A01104C	104	79	225
G5A01110C	110	85	225
G5A01117C	117	92	235
G5A01121C	121	96	235
G5A01128C	128	103	235
G5A01144C	144	119	250
G5A01152C	152	127	250
G5A01167C	167	142	285
G5A01184C	184	159	350
G5A01192C	192	167	350
G5A01216C	216	191	375
G5A01229C	229	200	375
G5A01240C	240	200	375

G7 Standard Offering:

Part Number	Max Open Temp T_f °C	Holding Temp T_h °C	Max Overshoot Temp T_m °C
G7F01072C	72	47	-
G7F01077C	77	52	125
G7F01084C	84	59	125
G7F01093C	93	68	140
G7F01098C	98	73	140
G7F01104C	104	79	-
G7F01110C	110	85	140
G7F01117C	117	92	140
G7F01121C	121	96	150
G7F01128C	128	103	150
G7F01144C	144	119	175
G7F01152C	152	127	175
G7F01167C	167	142	200
G7F01184C	184	159	200
G7F01192C	192	167	-
G7F01216C	216	191	-
G7F01229C	229	200	-
G7F01240C	240	200	-

Glossary of Terms:

T_f : Functioning open temperature. Tolerance +0° C, - 5° C

T_h : Holding temperature: Maximum continuous exposure temperature.

T_m : Maximum overshoot temperature: temperature up to which the TCO will not change status.

Direct Current (DC) Applications:

MICROTEMP® thermal cutoffs do not have published electrical ratings for direct current (DC) applications. Current interruption capacity in DC circuits is highly application sensitive.

We recommend thorough testing of DC electrical applications using the testing guidelines in the Thermo-O-Disc MICROTEMP® thermal cutoff technical information section. The TCO Technical Data Sheet can be downloaded from the AtCom website.