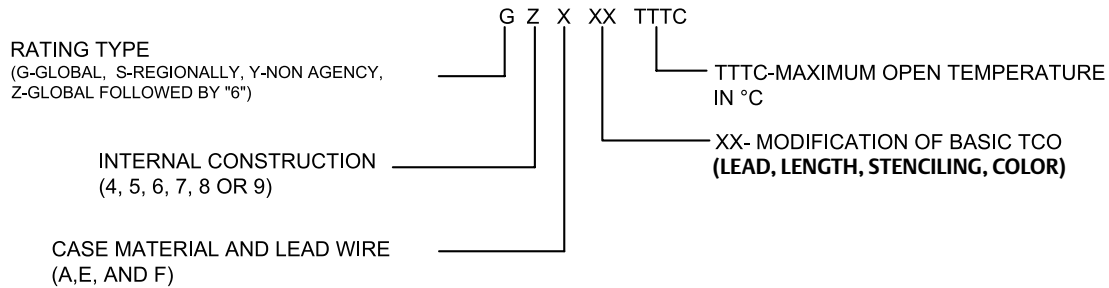
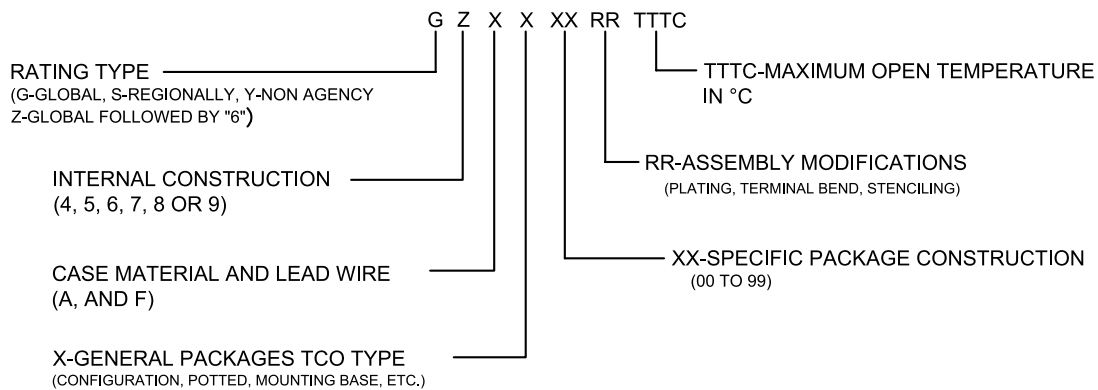


Product Nomenclature


MICROTEMP® THERMAL CUTOFF GLOBAL PRIMARY NUMBERING SYSTEM



MICROTEMP® THERMAL CUTOFF GLOBAL SECONDARY NUMBERING SYSTEM



MICROTEMP TCO Product Markings

XXXXXXXX	Special customer identification (when required, up to 9 characters)
MICROTEMP®	Registered trademark
PZZZZZ	Manufacturing plant (P); date code
G Z X XX	Primary part number
GZXXXXRR	Secondary part number
T _F TTTC	Maximum open temperature °C
	Underwriters Labs logo

Temperature Ratings

MICROTEMP thermal fuses are available in a wide range of opening temperatures, providing designers a high degree of flexibility. The proper calibration will be affected by application variables such as I²R self heating of the thermal fuse, heat transfer through insulation and heat dissipation due to heat sinking and air flow. Thermocoupled thermal fuse samples, that match the physical and electrical characteristics of a functional thermal fuse, are available to help evaluate application specific variables.

Tf °C	G4A		G5A		G6A		G7F		G8A		Z6A	
	Th °C	Tm °C	Th °C	Tm °C	Th °C	Tm °C	Th °C	Tm °C	Th °C	Tm °C	Th °C	Tm °C
72	57	100	57	410	47	100	-	-	47	410	-	-
73	58	100	58	410	48	100	-	-	48	410	-	-
77	62	300	62	410	62	300	62	125	62	410	-	-
84	69	220	69	220	69	220	69	125	69	220	-	-
91	76	300	76	430	76	300	-	-	-	-	-	-
93	78	300	78	410	-	-	78	140	78	410	-	-
98	83	300	83	410	83	300	83	140	83	410	83	280
104	89	200	89	225	89	200	-	-	89	225	89	260
110	95	240	95	225	-	-	95	140	95	225	-	-
117	102	240	102	410	102	240	102	150	102	410	102	275
121	106	300	106	410	106	300	106	150	106	410	106	380
128	113	205	113	235	113	205	113	150	113	235	-	-
134	119	205	119	410	-	-	119	175	-	-	-	-
141	126	205	126	350	-	-	126	175	-	-	-	-
144	129	300	129	410	129	300	129	175	119	410	134	380
152	137	205	137	410	127	205	137	175	-	-	142	380
158	143	240	143	410	-	-	143	200	-	-	-	-
167	152	210	152	410	-	-	152	200	152	410	157	380
172	157	310	157	410	-	-	157	200	-	-	-	-
184	169	240	169	410	169	210	169	200	169	410	174	380
190	175	350	175	410	-	-	175	270	-	-	-	-
192	177	210	177	350	167	210	177	210	177	350	-	-
205	190	310	190	410	-	-	-	-	-	-	-	-
216	200	450	200	410	-	-	-	-	-	-	-	-
229	200	450	200	410	200	375	-	-	200	410	200	380
240	200	450	200	410	200	450	-	-	200	410	200	380
257	220	470	-	-	-	-	-	-	-	-	-	-

Tf = Functioning open temperature +0/-5°C

Th = Maximum temperature of the thermal fuse, measured at the case end, at which the thermal fuse can be maintained for a period of at least 168 hours without opening

Tm = Maximum overshoot temperature. Temperature up to which the open thermal fuse will not change state

NOTES:

- It is advised that TCOs are not exposed to continuous operating temperatures in excess of T_f -25°C
- Comparative tracking index (all primary TCOs): 250VAC
- G4, G5, G6, G7 and G8 series TCOs with Tf ≥ 175°C comply with UL conductive heat aging (CHAT) requirements.

Electrical Rating Summary

Electrical Current & Voltage Rating

Series	G4		G5	G6	Z6	G7		G8	S9
Agency	Resistive	Inductive	Resistive	Resistive	Resistive	Resistive	Inductive	Resistive	Resistive
UL/CSA	10A/250VAC		20A/250VAC						
	15A/120VAC	8A/250VAC	25A/120VAC	16A/250VAC	16A/250VAC	5A/250VAC	4.5A/120VAC ²	20A/277VAC	
	21A/240VAC ¹	14A/120VAC	21A/240VAC			5A/24VDC	4.5A/250VAC ²	25A/250VAC	
	5A/24VDC		20A/277VAC						
VDE	10A/250VAC	8A/250VAC	20A/250VAC	16A/250VAC	16A/250VAC	5A/250VAC	4.5A/250VAC	25A/250VAC	
CCC	5A/24VDC	8A/250VAC	20A/250VAC	16A/250VAC	16A/250VAC	5A/24VDC	4.5A/250VAC	25A/250VAC	
	10A/250VAC					5A/250VAC			
PSE JET ³	10A/250VAC		15A/250VAC	15A/250VAC	16A/250VAC	5A/250VAC		25A/250VAC	15A/250VAC
Korea	10A/250VAC		16A/250VAC			5A/250VAC			

¹ For CSA only

² Except for 184C rating

³ MICROTEMP thermal fuse with primary part number GZX5XTTTC has PSE JET agency approval.

SJET	S4	S7	S9
125C	30A/16VDC		
152C		15A/16VDC	
172C	30A/16VDC		50A/16VDC
240C	30A/16VDC		50A/16VDC

Direct Current (DC) Applications

The G4, G7, S4, S7 and S9 series MICROTEMP thermal fuses have published electrical ratings for direct current (DC) applications. Current interruption capacity in DC circuits is highly application sensitive.

MICROTEMP TCO Standard Dimensions

		Dimensions - Inches (Millimeters)	G4, G5, G6, Z6, G8 Series	G7 Series	S9 Series	
Standard Leads	A	Overall Length ± .12 (±3.0)	2.51 (63.8)*	N/A	2.51 (64.8)	
	B	Case Lead Length ± .06 (±1.5)	1.38 (34.9)	N/A	1.38 (34.9)	
Long Leads	A	Overall Length ± .12 (±3.0)	3.26 (82.9)	3.26 (82.9)	3.26 (82.9)	
	B	Case Lead Length ± .06 (±1.5)	1.38 (34.9)	1.38 (34.9)	1.38 (34.9)	
Lead Material & Diameter	C	Case Lead	Tin Plated Copper	0.040 (1.0)	0.023 (.57)	0.057 (1.4)
	D	Isolated Lead	Silver Plated Copper	0.040 (1.0)	0.023 (.57)	0.057 (1.4)
Case Dimensions	E	Case Length (Reference)	0.58 (14.7)	0.38 (9.6)	0.58 (14.7)	
	F	Case Diameter (Reference)	0.158 (4.0)	0.118 (3.0)	0.158 (4.0)	

*Overall length available up to 5.83" (148mm)

