

PTC Thermistors, For High Temperature Protection



FEATURES

- Well-defined protection temperature levels
- Very fast reaction time
- Accurate resistance for ease of circuit design
- Excellent long term behavior
- Small size and rugged
- PTC thermistor with lead (Pb)-free terminations
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

APPLICATIONS

- Industrial electronics
- Power supplies
- Electronic data processing
- Motor protection
- Electronic ballasts
- dc to dc convertors

DESCRIPTION

These directly heated thermistors have a positive temperature coefficient and are primarily intended for sensing.

QUICK REFERENCE DATA		
PARAMETER	VALUE	UNIT
Maximum resistance at 25 °C	705	Ω
Minimum resistance at (T _n + 5) °C	4700	Ω
Maximum (DC) voltage	25	V
Temperature range	- 20 to (T _n + 15)	°C
Weight:	≈ 0.015	g
Climatic category	25/125/56	

NOMINAL WORKING TEMPERATURES AND ORDERING INFORMATION				
CODE NUMBERS 2381 675....	T _n (°C)	R _{max} at T _n - 5 °C (Ω)	R _{min} at T _n + 5 °C (Ω)	R _{min} at T _n + 15 °C (Ω)
20707	70	4700	4700	15 000
20807	80	4700	4700	15 000
20907	90	4700	4700	15 000
21007	100	4700	4700	15 000
21107	110	4700	4700	15 000
21207	120	4700	4700	15 000
21307	130	4700	4700	15 000
21407	140	4700	4700	15 000

Note

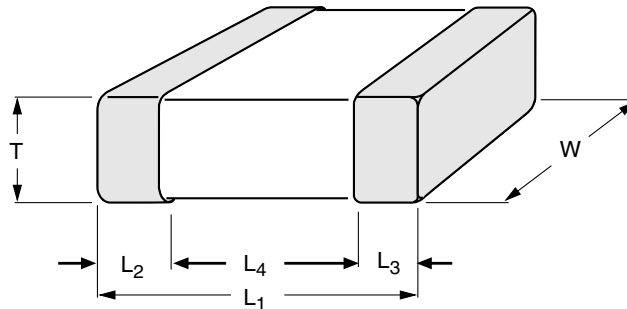
Other sizes are available on request

ELECTRICAL CHARACTERISTICS	
PARAMETER	VALUES
Maximum resistance at 25 °C	705 Ω
Maximum resistance at (T _n - 5) °C	4700 Ω
Minimum resistance at (T _n + 15) °C	15 000 Ω
Minimum resistance at (T _n + 5) °C	4700 Ω
Maximum voltage	25 V (AC or DC)

CATALOG NUMBERS AND PACKAGING		
12NC	SAP	SPQ
2381 675 20707	PTCSS12T071DTE	4000
2381 675 20807	PTCSS12T081DTE	4000
2381 675 20907	PTCSS12T091DTE	4000
2381 675 21007	PTCSS12T101DTE	4000
2381 675 21107	PTCSS12T111DTE	4000
2381 675 21207	PTCSS12T121DTE	4000
2381 675 21307	PTCSS12T131DTE	4000
2381 675 21407	PTCSS12T141DTE	4000

COMPONENT OUTLINE

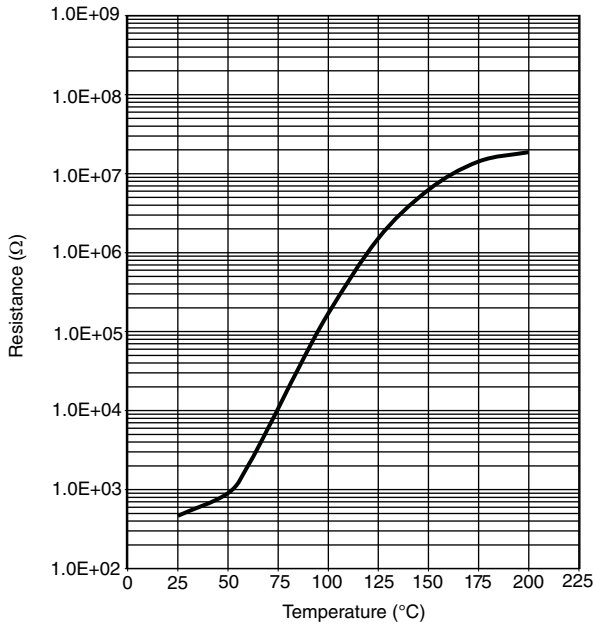
Dimensions in millimeters



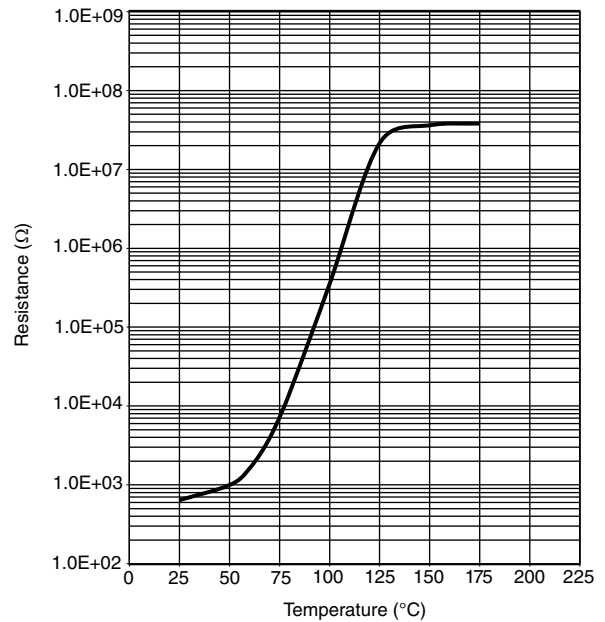
L ₁	W	T	L ₂ and L ₃ MIN.
2.00 ± 0.2	1.25 ± 0.2	0.90 ± 0.15	0.4 ± 0.25



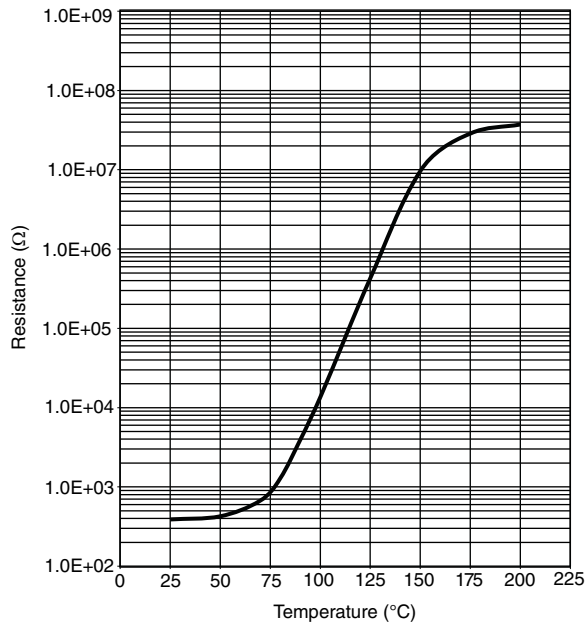
TYPICAL RESISTANCE/TEMPERATURE CHARACTERISTIC FOR 2381 675 20707



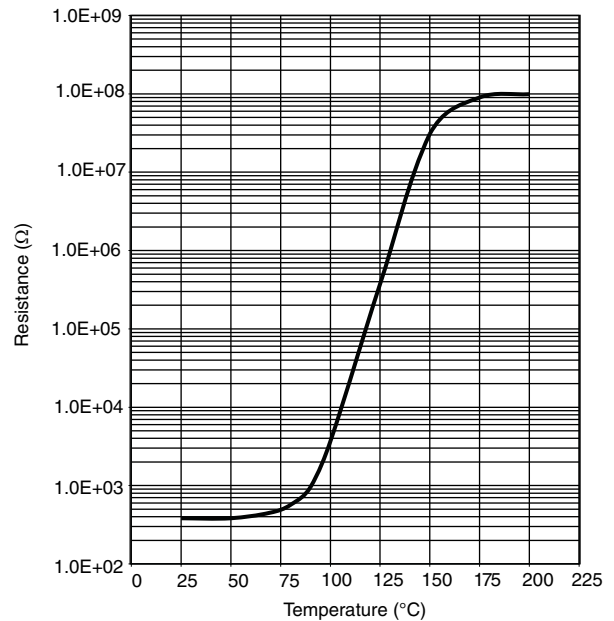
TYPICAL RESISTANCE/TEMPERATURE CHARACTERISTIC FOR 2381 675 20807



TYPICAL RESISTANCE/TEMPERATURE CHARACTERISTIC FOR 2381 675 20907

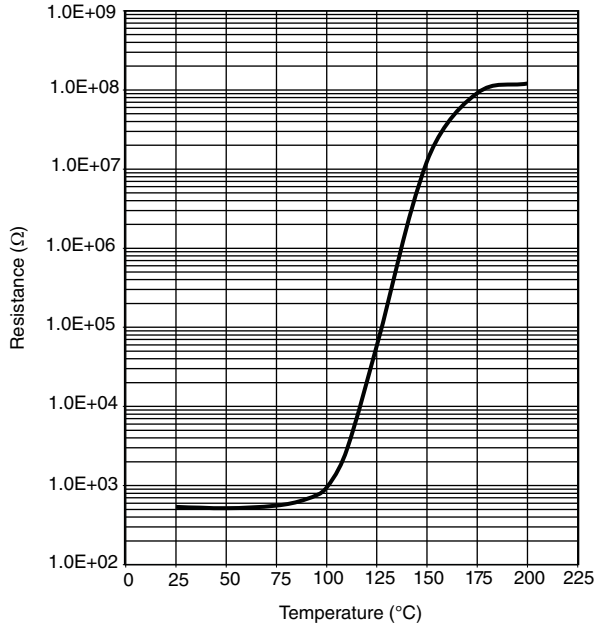


TYPICAL RESISTANCE/TEMPERATURE CHARACTERISTIC FOR 2381 675 21007

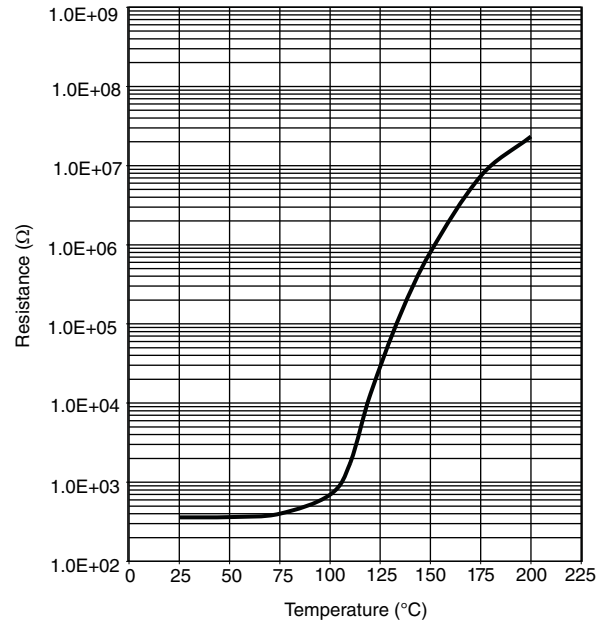




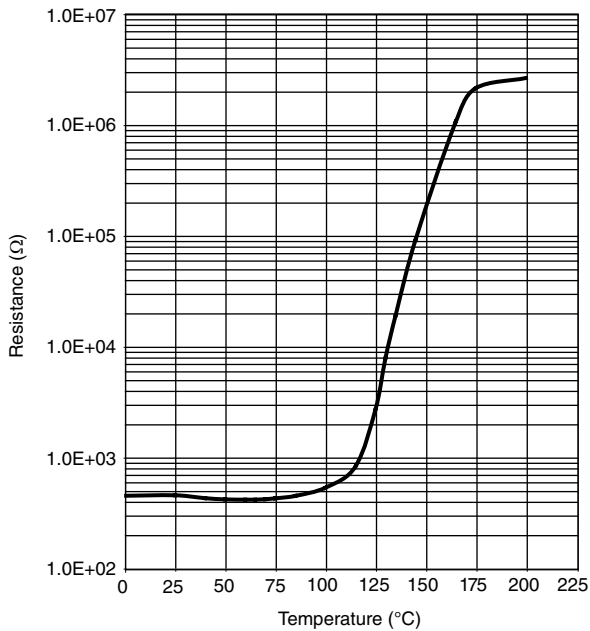
TYPICAL RESISTANCE/TEMPERATURE CHARACTERISTIC FOR 2381 675 21107



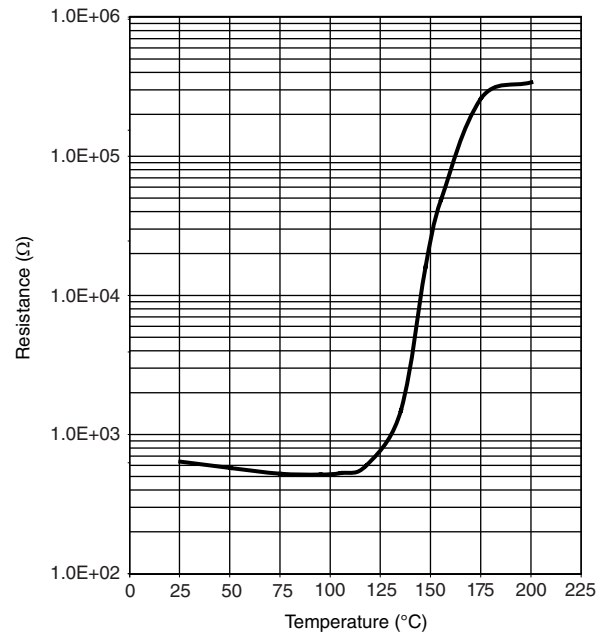
TYPICAL RESISTANCE/TEMPERATURE CHARACTERISTIC FOR 2381 675 21207



TYPICAL RESISTANCE/TEMPERATURE CHARACTERISTIC FOR 2381 675 21307



TYPICAL RESISTANCE/TEMPERATURE CHARACTERISTIC FOR 2381 675 21407





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