

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Platinum Resistance Temperature Detector

M 222

M series PRTDs are designed for large volume applications where long term stability, interchangeability and accuracy over a large temperature range are vital. Typical applications are Automotive, White goods, HVAC, Energy management, Medical and Industrial equipment.

Nominal Resistance R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Bag	Order Number Blister Reel
100 Ohm at 0°C	Clas s 1/3 B Class A Class B Class 2B	F 0.1 F 0.15 F 0.3 F 0.6	32 208 551 32 208 550 32 208 548 32 208 573	32 208 719 32 208 718
500 Ohm at 0°C	Class B Class A	F 0.3 F 0.15	32 208 706 32 208 712	
1000 Ohm at 0°C	Clas s 1/3 B Class A Class B Class 2B	F 0.1 F 0.15 F 0.3 F 0.6	32 208 707 32 208 572 32 208 571 32 208 557	

The measuring point for the nominal resistance is defined at 8mm from the end of the sensor body (4mm from the end of the sensor body for part numbers 32208573 and 32208557).

Specification DIN EN 60751 (according to IEC 751)

Temperature range -70°C to +500°C (continuous operation) (temporary use to 550°C possible)

Tolerance Class 2B: -70°C to +500°C
Tolerance Class B: -70°C to +500°C
Tolerance Class A: -50°C to +300°C
Tolerance Class 1/3 B: 0°C to +150°C

Temperature coefficient TCR = 3850 ppm/K

Leads Pt clad Ni- wire

Recommend connection technology: Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1mm

 $(6mm \pm 1mm for p/n 32208573 and 32208557)$

Long-term stability max. R₀-drift 0.04% after 1000h at 500°C

Vibration resistance at least 40g acceleration at 10 to 2000 Hz,

depends on installation

Shock resistance at least 100g acceleration with 8ms half sine

wave, depends on installation

Environmental conditions unhoused for dry environments only

Insulation resistance > 100 M Ω at 20°C; > 2 M Ω at 500°C

Self heating 0.4 K/mW at 0°C

Response time water current (v= 0.4m/s): $t_{0.5} = 0.05$ s

 $t_{0.9} = 0.15s$

air stream (v= 2m/s): $t_{0.5} = 3.0s$

 $t_{0.9} = 10.0s$

Measuring current 100 Ω : 0.3 to 1.0mA

 500Ω : 0.1 to 0.7mA 1000Ω : 0.1 to 0.3mA

(self heating has to be considered)

Note Other tolerances, values of resistance and wire

lengths are available on request.

We reserve the right to make alterations and technical data printed. All technical data serves as a guideline and does not guarantee particular properties to any products.

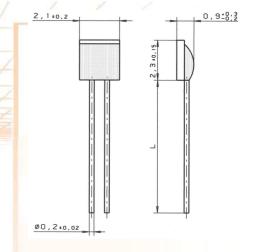
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