



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

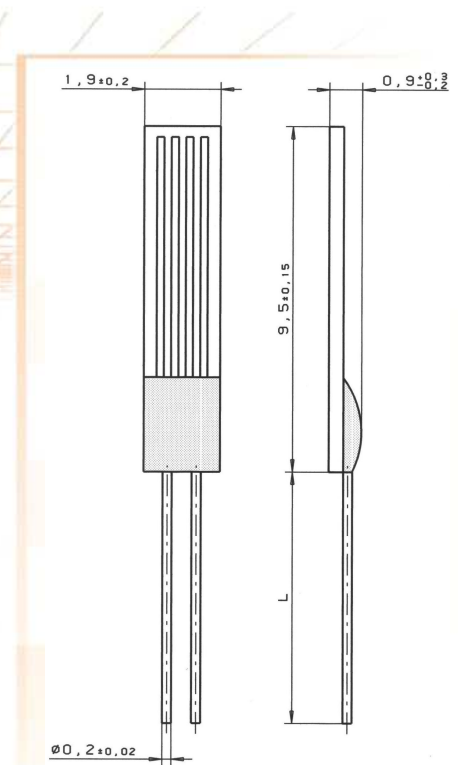
M 1020

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	Class 1/3 B	F 0.1		32 208 428
	Class A	F 0.15		32 208 429
	Class B	F 0.3	32 208 180	32 208 280
500 Ohm at 0°C	Class B	F 0.3	32 208 201	32 208 285
1000 Ohm at 0°C	Class 1/3 B	F 0.1	32 208 482	32 208 483
	Class A	F 0.15	32 208 438	32 208 439
	Class B	F 0.3	32 208 191	32 208 286

The measuring point for the nominal resistance is defined at 8mm from the end of the sensor body.

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 B:	-70°C to +500°C
	Tolerance Class A:	-50°C to +300°C
	Tolerance Class 1/3 DIN:	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 ±1 mm	
Long-term stability	max. R ₀ -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 MΩ at 20°C; > 2 MΩ at 500°C	
Self heating	0.2 K/mW at 0°C	
Response time	water current (v= 0.4m/s):	t _{0,5} = 0.10s t _{0,9} = 0.30s
	air stream (v= 2m/s):	t _{0,5} = 4.0s t _{0,9} = 12.0s
Measuring current	100Ω: 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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