

GENERAL PURPOSE ROD THERMISTORS

Continuous Temperature Rating: 125° in accordance with MIL-T-23648 for all rods except those with fired-in leads: 268°C.

Lead Diameter and Material for: .053 Diameter Rods .016 (26AWG) Tinned Copper x 1-3/8 min. • 110 Diameter Rods .020 • (24 AWG) Tinned Copper x 1-3/8 min. • .172 Diameter Rods .032 (20 AWG) Tinned Copper x 2 min.

The dissipation and time constants are nominal and are shown with rods supported by their leads in still air at 25°C ②

The constants for plain rods are dependent on and vary greatly with the method of mounting; hence these values are not shown.

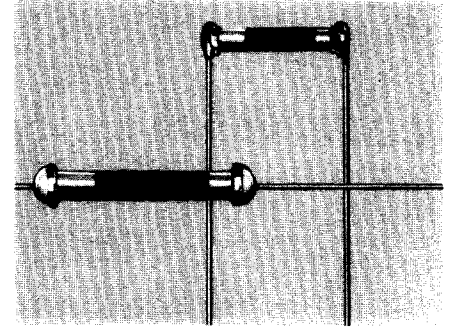
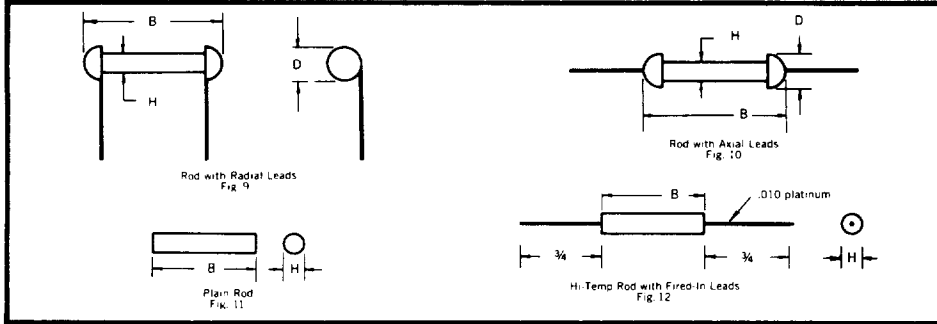
Nominal Temperature Coefficient (α)
@ 25°C (%/°C)

"R" Type Rods = -4.4%/°C

"S" Type Rods = -3.8%/°C

Resistance Tolerance @ 25°C = ± 10% ③

Rod Types	RESISTANCE RATIO	
	Ro @ 25°C ①	Ro @ 0°C
	Ro @ 125°C	Ro @ 50°C
"S"	19.8 ± 10%	6.85 REF
"R"	29.4 ± 10%	9.1 REF



LINE NO.	VECO NUMBER			Cold Resistance Ro @ 25°C (Ohms)	Dissipation Constant δ @ 25°C (MW/°C)	Time Constant τ (Secs)	Dimensions		
	Fig. 9	Fig. 10	Fig. 11				B max.	D max.	H
1	41 S 2	41 S 4	41 S 5	10,000	3	16	5/8	1/8	.053
2	51 R 2	51 R 5	51 R 8	100,000	3	16	5/8	1/8	.053
3	33 S 2	33 S 1	33 S 3	3,150	6	50	29/32	7/32	.110
4	34 S 4	34 S 2	34 S 3	4,300	6.5	50	29/32	7/32	.110
5	36 S 6	36 S 1	36 S 5	6,300	7	55	1-1/16	7/32	.110
6	37 S 2	37 S 1	37 S 3	7,250	7	60	1-1/16	7/32	.110
7	38 S 6	38 S 1	38 S 5	8,000	7.5	65	1-1/16	7/32	.110
8	41 R 4	41 R 1	41 R 3	10,000	5	35	19/32	7/32	.110
9	41 S 6	41 S 1	41 S 7	10,000	8	75	1-23/32	7/32	.110
10	42 R 4	42 R 1	42 R 3	15,000	5	40	19/32	7/32	.110
11	43 R 4	43 R 1	43 R 3	31,500	5.5	50	15/16	7/32	.110
12	45 R 8	45 R 1	45 R 7	50,000	6	65	1-1/8	7/32	.110
13	51 R 10	51 R 1	51 R 9	100,000	10	80	1-23/32	7/32	.110
14	32 S 4	32 S 2	32 S 3	2,000	10	80	1-1/8	5/16	.172
15	33 S 6	33 S 4	33 S 5	3,000	11	85	1-3/8	5/16	.172
16	35 S 4	35 S 3	35 S 5	5,000	12	90	1-7/8	5/16	.172
17	42 R 6	42 R 5	42 R 7	20,000	8	75	1-1/8	5/16	.172
18	43 R 7	43 R 6	43 R 5	30,000	11	85	1-3/8	5/16	.172
19	45 R 10	45 R 9	45 R 11	50,000	16	120	1-7/8	5/16	.172
20	45 R 12	Fig. 12	100 Ω @ 268°C	50,000	3.5	60	5/8		.110
21	52 T 1	Fig. 12	460 Ω @ 268°C	200,000	2	13	5/8		.053

① In accordance with MIL-T-23648.

② Refer to Veco technical bulletins MTD 131 and MCT 181 as well as MIL-T-23648 for definitions and test procedures.

③ See note ③ page 1.

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