

**Precision Metal Film Resistors
MIL-R-10509 (RN)**

Dimensions — Body Configuration Molded

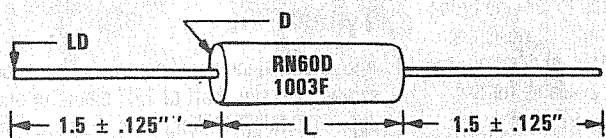


Table 1. Electrical & Physical Characteristics

MIL Style	MIL Range ()	TRW Range ()	TOL. ± %	T.C. (±ppm/°C)	Power Rating TRW	MIL	Voltage Rating (v)	Dimensions		
								L (in.)	D (in.)	LD (in.)
RN55D	10 — 301K	10 — 499K	1	100	1/2W @ 70° C	1/8 W @ 70° C 1/10W @ 125° C	200	.250 ± .015	.090 ± .008	.025 ± .001
RN55C	49.9 — 100K	10 — 301K	1	50	1/4W @ 70° C	1/10W @ 125° C	200	.250 ± .015	.090 ± .008	.025 ± .001
RN60D	10 — 1M	10 — 1M	1	100	3/4W @ 70° C	1/4W @ 70° C 1/8W @ 125° C	250	.390 ± .010	.140 ± .008	.025 ± .001
RN60C	49.9 — 499K	10 — 499K	1	50	1/2W @ 70° C	1/8W @ 125° C	250	.390 ± .010	.140 ± .008	.025 ± .001
RN65D	10 — 1M	10 — 1M	1	100	1W @ 70° C	1/2W @ 70° C 1/4W @ 125° C	300	.562 ± .031	.190 ± .008	.025 ± .001

Table 2. Standard Resistance Decade Values (1% Tolerance)

1.00	1.33	1.78	2.37	3.16	4.22	5.62	7.50
1.02	1.37	1.82	2.43	3.24	4.32	5.76	7.68
1.05	1.40	1.87	2.49	3.32	4.42	5.90	7.87
1.07	1.43	1.91	2.55	3.40	4.53	6.04	8.06
1.10	1.47	1.96	2.61	3.48	4.64	6.19	8.25
1.13	1.50	2.00	2.67	3.57	4.75	6.34	8.45
1.15	1.54	2.05	2.74	3.65	4.87	6.49	8.66
1.18	1.58	2.10	2.80	3.74	4.99	6.65	8.87
1.21	1.62	2.15	2.87	3.83	5.11	6.81	9.09
1.24	1.65	2.21	2.94	3.92	5.23	6.98	9.31
1.27	1.69	2.26	3.01	4.02	5.36	7.15	9.53
1.30	1.74	2.32	3.09	4.12	5.49	7.32	9.76

Note: Above 96 values are for each decade; i.e., 10 Ω to 100 Ω, 100 Ω - 1000 Ω etc.

Table 3. MILPart Numbering

MIL-R-10509 (RN) RN60D1003

RN60 Style/Power (See Table 1)	D Characteristic D = ± 100ppm/° C	1003 Resistance First 3 digits significant, 4th digit "number of zeros." 1003 = 100,000 Ω	F Tolerance F = ± 1%
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