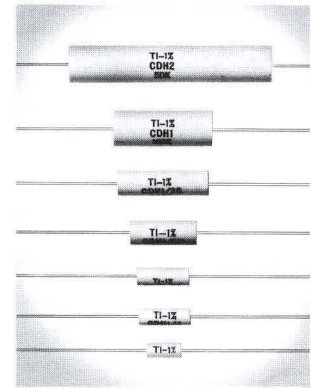


HERMETICALLY SEALED PRECISION CARBON FILM RESISTORS



Meet or exceed all requirements of
Specification MIL-R-10509C for Characteristic B

Full rated load at 70°C ambient
High degree of stability and reliability
Precision resistances—±1% tolerance
Solder sealed ceramic case



1/2 ACTUAL SIZE

HERMETICALLY SEALED PRECISION CARBON FILM RESISTORS
BULLETIN NO. DL-C 1082 MAY 1959
REPLACES BULLETIN NO. DL-C 866 MARCH 1958

specifications

TI type number	watt- age rating — watts	MIL desig- nation	standard resistance ranges	max. recom- mended voltage— volts	body length — inches	body diameter — inches	lead length — inches	lead diameter		avg. weight per 100 unpacked units — lbs.
								Inches	awg #	
CDH1/8M	1/8	—	10 Ohm - 500K	250	0.285 (±0.015)	0.160 (±0.010)	1.500 (±0.062)	0.025	22	0.126
CDH1/8	1/8	RN60B	10 Ohm - 1 Meg	350	0.385 (±0.015)	0.160 (±0.010)	1.500 (±0.062)	0.025	22	0.154
CDH1/4	1/4	RN65B	10 Ohm - 1 Meg	500	0.585 (±0.015)	0.180 (±0.010)	1.500 (±0.062)	0.025	22	0.220
CDH1/2P	1/2	—	10 Ohm - 3 Meg	650	0.587 (±0.015)	0.199 (±0.010)	1.500 (±0.062)	0.032	20	0.264
CDH1/2A	1/2	RN65B	10 Ohm - 3 Meg	650	0.625 (±0.015)	0.240 (±0.010)	1.475 (±0.062)	0.032	20	0.361
CDH1/2M	1/2	RN70B	10 Ohm - 5 Meg	750	0.750 (±0.015)	0.250 (±0.015)	1.475 (±0.062)	0.032	20	0.437
CDH1/2S	1/2	—	50 Ohm - 10 Meg	850	1.000 (±0.015)	0.250 (±0.015)	1.500 (±0.062)	0.032	20	0.489
CDH1	1	RN75B	10 Ohm - 10 Meg	1000	1.094 (±0.020)	0.400 (±0.020)	1.500 (±0.062)	0.032	20	1.410
CDH2	2	RN80B	50 Ohm - 50 Meg	2000	2.250 (±0.025)	0.400 (±0.020)	1.500 (±0.062)	0.032	20	2.450

commercial symbolization

Standard symbolization includes TI Type Number, Resistance Value, and Tolerance.

military symbolization

Per MIL-R-10509 — Resistors, Fixed Film (High Stability)

All resistors are calibrated at 25°C. Resistance values are available expressed to a maximum of three significant figures.

modifications available on request

± 1/2, 2 or 5% Resistance Tolerances
Resistance Values Outside Published Ranges
Special high temperature construction

TI carbon film resistors are manufactured under license agreement with the Western Electric Company.

SEMICONDUCTOR-COMPONENTS DIVISION

TEXAS INSTRUMENTS
INCORPORATED
SEMICONDUCTOR-COMPONENTS DIVISION
POST OFFICE BOX 312 · 13500 N. CENTRAL EXPRESSWAY
DALLAS, TEXAS

HERMETICALLY SEALED PRECISION CARBON FILM RESISTORS

TYPICAL CHARACTERISTICS

test

- Temperature Cycling per Mil-R-10509C (4.6.4)
- Low Temperature Operation per Mil-R-10509C (4.6.5)
- Short Time Overload per Mil-R-10509C (4.6.6)
- Effect of Soldering per Mil-R-10509C (4.6.10)
- Insulation Resistance per Mil-R-10509C (4.6.9)
- Acceleration per Mil-R-10509C (4.6.14)
- Shock per Mil-R-10509C (4.6.15)
- Vibration, High Frequency per Mil-R-10509C (4.6.16)
- Shelf Life, Change per Year
- Voltage Coefficient

average performance of T1 resistors *

- + 0.05 to - 0.15%
- Less than $\pm 0.10\%$
- 0 to $\pm 0.15\%$
- Less than $\pm 0.05\%$
- Greater than 1,000,000 Megohms
- Less than $\pm 0.05\%$
- Less than $\pm 0.05\%$
- Less than $\pm 0.10\%$
- Less than $\pm 0.10\%$
- Less than $\pm 0.002\%/Volt$

limits MIL-R-10509B

- $\pm 0.50\%$
- $\pm 0.50\%$
- $\pm 0.75\%$
- $\pm 0.50\%$
- Greater than 10,000 Megohms
- $\pm 0.5\%$
- $\pm 0.5\%$
- $\pm 1.0\%$
- No requirement
- No requirement

* Unless otherwise noted, data is % change in total resistance.

