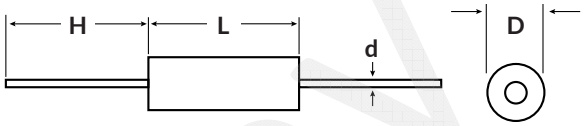
CARBON MATRIX RESISTORS
CM SERIES - 1W to 2W

RoHS Sn/Pb

FEATURES
- Low inductance / high frequency performance
- High surge / pulse handling
- Improved moisture characteristics
- Choice of tin or tin-lead termination finish

OPTIONS
- ***Opt. HC***: External clear epoxy coat - improved ruggedness and moisture resistance
- ***Opt. 37***: Group A screening per MIL-R-39008
- ***Opt. EU8***: Group A & B modified screening plan
- ***Other***: Custom marking, custom testing, cut & formed leads, hot solder dipped leads, pre-conditioning & numerous other options.

RCDs' NEW Carbon Matrix series is a direct replacement for the now unavailable original Allen Bradley and other aftermarket Carbon Composition parts that have gone end-of-life.



RCD TYPE	MIL STYLE	WATTAGE (W)	MAXIMUM VOLTAGE (VDC)	DIELECTRIC STRENGTH (V)	RESISTANCE RANGE (Ω)	DIMENSIONS In [mm]			
						L	D TYP	d	H TYP *(bulk pack)*
CM1	RCR32	1.00	350	1000		0.61±0.050 [15.5±1.27]	0.232±0.022 [5.90±0.55]	0.036±0.006 [0.90±0.15]	1.0 [25.4]
CM2	RCR42	2.00	500	1500	10 - 10k	0.688 [17.48]	0.318±0.018 [8.08±0.46]	0.045±0.003 [1.14±0.08]	1.5 [38.1]

TYPICAL PERFORMANCE

Operating Temperature Range	-55°C to +125°C
Short Time Overload	±1% + 0.05Ω
Moisture Resistance	±7%
Load Life *(1,000 hrs)*	±10%
Insulation Resistance	10,000 MΩ
Shock & Vibration	±2%
Terminal Strength *(direct pull)*	5 lbs. MIN
Standard Marking *(Color Code Table)*	4 bands (or alpha numeric, 5th FR band)

PART NUMBER DERIVATION

CM1 ☐ - 101 - J T W

RCD Type: CM1/2, CM1, CM2
Options: HC, 37, EU8, etc.
(leave blank for standard)
Resistance Code: 2 signif. digits & mult.
ex: 1R0 = 1Ω, 100 = 10Ω, 101 = 100Ω, 102 = 1K, 103 = 10K, etc.
Tolerance: J = ±5%, K = ±10%
Packaging: B = Bulk, A = Ammo Pack, T = Tape & Reel
Termination: W = RoHS, Q = Tin/Lead
(leave blank if both are acceptable)