

CARBON MATRIX RESISTORS

CM SERIES - 1W to 2W



RESISTOR



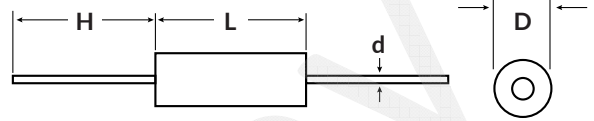
FEATURES

- ▶ 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]	0.036±0.006 [0.90±0.15]	0.036±0.006 [0.90±0.15]	1.0 [25.4]
CM2	RCR42	2.00	500	1500	10 - 10k	0.688 [17.48]	0.045±0.003 [1.14±0.08]	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

