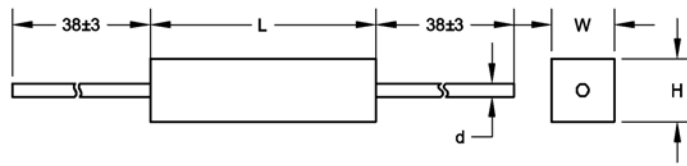
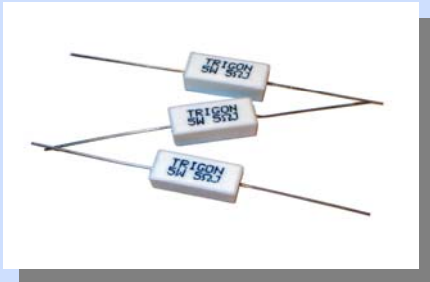


RCMP Series

Cement Resistors – Axial Lead Type

TRIGON
COMPONENTS



DIMENSIONS (in/mm)

STYLE	L	W	H	d
2 W	0.71±0.04 (18±1.0)	0.26±0.04 (6.5±1.0)	0.26±0.04 (6.5±1.0)	0.03±0.002 (0.8±0.05)
3 W	0.87±0.06 (22±1.5)	0.31±0.04 (8.0±1.0)	0.31±0.04 (8.0±1.0)	0.03±0.002 (0.8±0.05)
5 W	0.87±0.06 (22±1.5)	0.37±0.04 (9.5±1.0)	0.31±0.04 (8.0±1.0)	0.03±0.002 (0.8±0.05)
7 W	1.38±0.06 (35±1.5)	0.37±0.04 (9.5±1.0)	0.31±0.04 (8.0±1.0)	0.03±0.002 (0.8±0.05)
10 W	1.89±0.06 (48±1.5)	0.37±0.04 (9.5±1.0)	0.31±0.04 (8.0±1.0)	0.03±0.002 (0.8±0.05)
15 W	1.89±0.06 (48±1.5)	0.49±0.06 (12.5±1.5)	0.49±0.06 (12.5±1.5)	0.04±0.002 (1.0±0.05)
20 W	2.36±0.08 (60±2.0)	0.49±0.06 (12.5±1.5)	0.49±0.06 (12.5±1.5)	0.04±0.002 (1.0±0.05)

FEATURES

- SQP
- Exceptionally skall and sturdy; mechanically sage, Excellent electrical characteristics.
- Resistance Tolerance: ±5%.
- Applicable specifications: EIA RS-344 and EIA RC-649

ORDERING CODE

RCMP 103 J E B
(1) (2) (3) (4) (5)

(1) Series Name

(2) Resistance
3-Digit IEC Code (E-24)

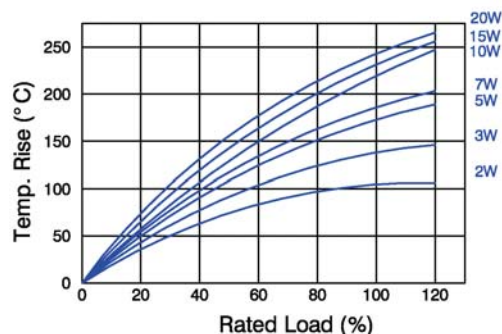
(3) Tolerance

(4) Power Rating

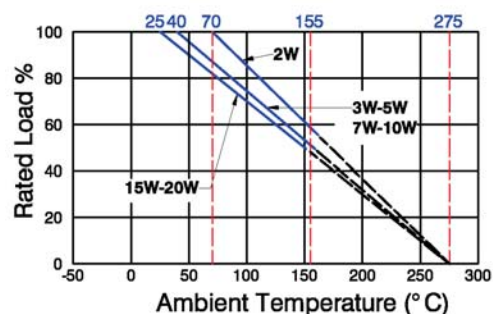
(5) Packing Style

※Please refer to complete Ordering Code document (R(Axial)-Ord) for more ordering options.

TEMPERATURE RISE



DERATING CURVE



RCMP Series

Cement Resistors – Axial Lead Type

TRIGON
COMPONENTS

Resistor

ELECTRICAL CHARACTERISTICS

STYLE	RCMP-E	RCMP-F	RCMP-H	RCMP-J	RCMP-M	RCMP-N	RCMP-O
Power Rating	2 W	3 W	5 W	7 W	10 W	15 W	20 W
Operating Temp. Range	-55°C to +155°C						
Maximum Working Voltage	250V	350V	350V	500V	500V	500V	500V
Maximum Overload Voltage	500V	700V	700V	1000V	1000V	1000V	1000V
Dielectric Withstanding Voltage	500V	700V	700V	1000V	1000V	1000V	1000V
Value Range ±5% (Ceramic Core)	0.15Ω ~ 100Ω	0.3Ω ~ 120Ω	0.3Ω ~ 180Ω	0.5Ω ~ 220Ω	1Ω ~ 270Ω		
Value Range ±5% (Metal Oxide Film)	110Ω ~ 10KΩ	130Ω ~ 22KΩ	200Ω ~ 33KΩ	240Ω ~ 10KΩ	300Ω ~ 10KΩ		
Temperature Coefficient (by Type)	±300 ppm/°C						

※ 1. The listed resistance range for standard resistance, below or over this resistance is on request.

※ 2. Non-Inductive type up to 50Ω only.

ENVIRONMENTAL CHARACTERISTICS

Performance Test	Test Method	Appraise
Short Time Overload	JIS-C-5202 5. 5: 2.5 times RCWV for 5 seconds	±(2%+0.05Ω)
Dielectric Withstanding V.	JIS-C-5202 5. 7: in V-Block for 60 seconds	By Type
Temperature Coefficient	JIS-C-5202 5. 2: -55°C ~ +155°C	±300 ppm/°C
Insulation Resistance	JIS-C-5202 5. 6: in V-Block	≥ 100 MΩ
Solderability	JIS-C-5202 6. 5: 235°C for 5±0.5 seconds	95% min. coverage
Resistance to Solvent	JIS-C-5202 6. 9: Trichroethance for 1 min. with ultrasonic	No deterioration
Terminal Strength	Direct load for 10 sec. In the direction of the terminal leads	≥ 2.5 KG/ 24.5 N
Pulse Overload	JIS-C-5202 5. 8: 4 times RCWV 10000 cycles(1 sec.on,25 sec.off)	±(2%+0.05Ω)
Load life in Humidity	JIS-C-5202 7. 9: 40±2°C,90~95%RH at RCWV for 1000 hrs. (1.5 hrs. on, 0.5 hrs. off)	±(5%+0.05Ω)
Load Life	JIS-C-5202 7.10: 70°C at RCWV for 1000 hrs(1.5hrs.on,0.5hrs off)	±(5%+0.05Ω)
Temperature Cycling	JIS-C-5202 7. 4: -65°C~room temp. ~-150°C~room temp. for 5 cycle	±(2%+0.05Ω)
Resistance to Soldering Heat	JIS-C-5202 6. 4: 350±10°C for 3±0.5 seconds	±(1%+0.05Ω)

※Rated continuous Working Voltage (RCWV) = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$