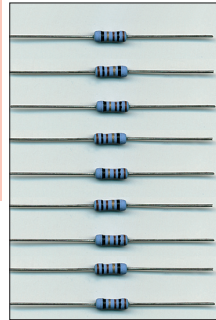
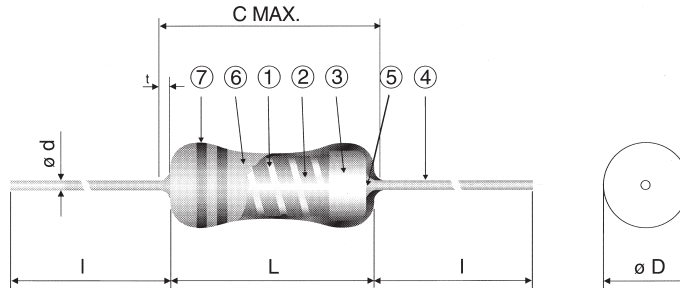


METAL GLAZE ANTI SURGE RCR



STRUCTURE

- 1 Ceramic core
- 2 Trimmed metal glaze
- 3 Steel cap (Cu, Sn plated)
- 4 Lead wire
- 5 Welding joint
- 6 Flame retardant coating
- 7 Marking



IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING*	
		4 bands	5th band
RCR16	Blue grey	Color Code (R-value and tolerance)	-
RCR25, 50, 75, 100			Black
RCR50 + RCR50EN (1MΩ...12MΩ)			Green
RCR60			White

*Please consult KOA for details of color code marking.

All these products have Pb-free terminations and meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

RCR	50	+	C	T52	A	106	J	Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS
PRODUCT CODE	POWER RATING 16,25: 0.25W 50: 0.5W; 60: 1W 75: 2W; 100: 3W	RECOGNIZED MARK + : RCR50+ EN: RCR50EN 'Blank': Others	TERMINATION SURFACE MATERIAL C: SnCu	TAPING & FORMING	PACKAGING A: Ammo R: Reel	NOMINAL RESISTANCE F: 4 digits J: 3 digits	RESISTANCE TOLERANCE F: (±1%) J: (±5%)	

FEATURES

- Excellent anti-surge characteristics
- Stable characteristics of moisture resistance even in high resistance range
- RCR50+ (1MΩ~12MΩ), RCR50EN (1MΩ~12MΩ) and RCR60 (1MΩ~12MΩ) are discharge resistors recognized by UL1676 and c-UL (CSA-C22.2 No.1-M94)
- RCR50EN (100kΩ~33MΩ) and RCR60 (470kΩ~56MΩ) are approved by EN60065 14.1 safety.
(There is a case that RCR50EN cannot meet CLASS II depending on a use.)
- Ideal for use in TV's, CRT displays, copy machines, LBP's, VTR's, switching power supplies or AC adapters
- Rated ambient temperature: +70°C
- Operating temperature range: -55°C... +155°C

DIMENSIONS (mm)

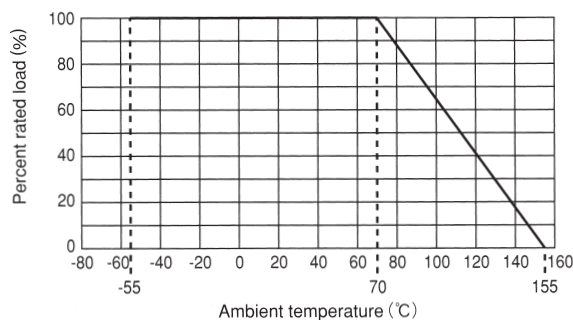
TYPE	L	C Max.	t Max.	ø D	ø d (nom.)	l*
RCR 16	3.2 ± 0.2	3.4	-	1.7 +0.2 / -0.1	0.45	20 min.
RCR 25	6.3 ± 0.5	7.1	-	2.5 ± 0.5	0.6	
RCR 50	9.5 ± 1.0	-	3.0	3.5 ± 0.4	0.7	
RCR 60	9.5 +1.0 / -0.2	-		4.0 ± 0.5	0.8	
RCR 75	12.0 ± 1.0	-		6.0 +1.0 / -0.4	-	
RCR 100	15.5 ± 1.0	-		-	-	

*Lead length changes depending on taping and forming type.

Approvals Awarded

RCR50+ : UL1676 & c-UL (CSA-C22.2 No.1-M94) (File No. E159326)
 RCR50EN : EN60065 (VDE File No. VDE-Reg.-Nr.40024807), UL1676 & c-UL (CSA-C22.2 No.1-M94) (File No. E159326)
 RCR60 : EN60065 (BSI File No.8164, VDE File No.VDE-Reg.-Nr.124069), UL1676 & c-UL (CSA-C22.2 No.1-M94) (File No. E159326)

DERATING CURVE



SURGE WITHSTANDING VOLTAGE

TYPE	RCR 16	RCR25	RCR 50 • RCR 50+	RCR 50 EN RCR 60 RCR 75 RCR 100
APPLIED VOLTAGE	2kV	3kV	3.3Ω...6.2Ω : 10kV 6.8Ω...10Ω : 7kV 11Ω...9.1kΩ : 5kV 10kΩ...91kΩ : 7kV 100kΩ...33MΩ : 10kV	10kV

Discharge test: 2kV...10kV 0.01μF capacitor discharge pulse 10 times (1pulse/5sec. max.).

RATING

DIN SIZE	TYPE	T.C.R. (ppm/K)	POWER RATING*	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	DIELECTRIC WITHSTANDING VOLTAGE	RESISTANCE RANGE	
							E24 • E96	E24
							F (±1%)	J (±5%)
0204	RCR 16	±200	0.25W	500V	1000V	300V	100kΩ... 1MΩ	100kΩ... 5.1MΩ
0207	RCR 25	±350		DC 1600V AC 1150V	DC 2000V AC 1500V		100kΩ... 9.1MΩ	100kΩ... 33MΩ
0411	RCR 50	R≥100kΩ: ±350 R<100kΩ: ±500	0.5W	2000V	2500V	700V	3.3Ω... 910kΩ	3.3Ω... 910kΩ
	RCR 50+						1MΩ... 9.1MΩ	1MΩ... 12MΩ
	RCR 50 EN						100kΩ... 33MΩ	
0414	RCR 60	±350	1W	4000V	5000V		100kΩ... 9.1MΩ	100kΩ... 56MΩ
	RCR 75		2W					100kΩ... 100MΩ
0617	RCR 100	±200	3W			1000V	100kΩ... 33MΩ	

* For resistors operated at an ambient temperature of +70°C or above, the power rating shall be derated in accordance with the above derating curve.

Rated voltage = √Power rating x resistance value or max. working voltage, whichever is lower.