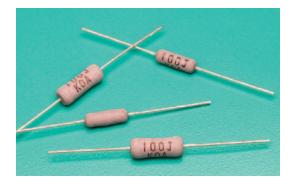




ΕIJ

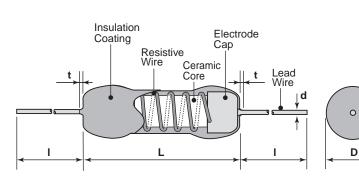
coat-insulated wirewound resistors (with fusing function)



features

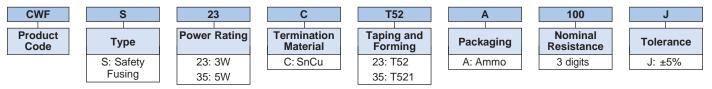
- Flameproof retardant coating (equivalent to UL94 V-0)
- Fail-safe mains fusing at AC 250V (CWFS23: 4.7Ω~9.1Ω: AC200V)
- Products with lead-free terminations meet EU RoHS

dimensions and construction



		Dimensions inches (mm)						
Туре	•	L	D	I	d (nom.)	t (max.)		
CWFS	23	.472±.039 (12.0±1.0)	.157±.039 (4.0±1.0)	1.18±.118 (30.0±3.0)	.031 (0.8)	.118 (3.0)		
CWFS	35	.591±.039 (15.0±1.0)	.236±.039 (6.0±1.0)	1.18±.118 (30.0±3.0)	.031 (0.8)	.118 (3.0)		

ordering information



Contact KOA when you have control request for environmental hazardous material other than the substance specified by EU RoHS. For further information on packaging, please refer to Appendix C. Lead length changes depending on taping and forming type.

applications and ratings

Part Designation	Power Rating	Rated Terminal Part Temperature	Resistance Range E-24 (J±5%)	Fusing Cha Fusing Power	racteristics Fusing Time	T.C.R. (x10⁵/K)	Operating Temperature Range
CWFS23	3W	+120°C	4.7Ω - 100Ω	90W	30s Max.	±100	-55°C
CWFS35	5W	+180°C	4.7Ω - 100Ω	150W	30s Max.	±100	to +200°C

Rated voltage= VPower Rating × Resistance value

174

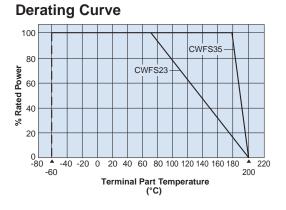
Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

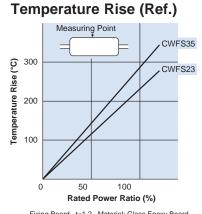




coat-insulated wirewound resistors (with fusing function)

environmental applications



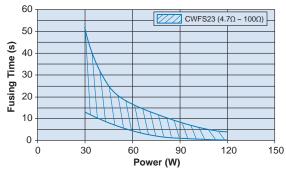


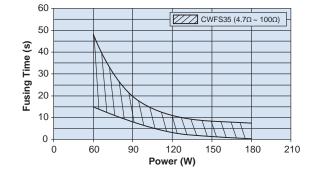
Fixing Board t=1.2 Material: Glass Epoxy Board

Performance Characteristics

	Requirement Δ	R ±(% + 0.05Ω)		
Parameter	Limit	Typical	Test Method	
Resistance	Within regulated tolerance	—	25°C	
T.C.R.	±100X10 ⁻⁶ /K	—	+25°C/-55°C and +25°C/+125°C	
Melt Time	30 seconds	4 seconds	Power rating x 30	
Overload (Short Time)	5%	2%	Rated rating x 10, 5 seconds	
Resistance to Solder Heat	1%	0.8%	$350^{\circ}C \pm 10^{\circ}C$ for 3.5 seconds or $260^{\circ}C \pm 5^{\circ}C$ for 10 seconds	
Moisture Resistance	5%	4%	Power rating x 1/10, 40°C, 90 - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
Endurance of Rated Terminal Part Temperature	5%	3%	CWFS23: 120°C ± 2°C; CWFS35: 180°C ± 2°C 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
Resistance to Solvent	No abnormaly in appearance such as disappearance of making, etc.	_	On immersing the sample in IPA for 3 min., the resistor surface should be lightly wiped with a dry cloth (velvet or gauze)	

Example of Fusing Characteristics





leaded resistors

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

12/15/22