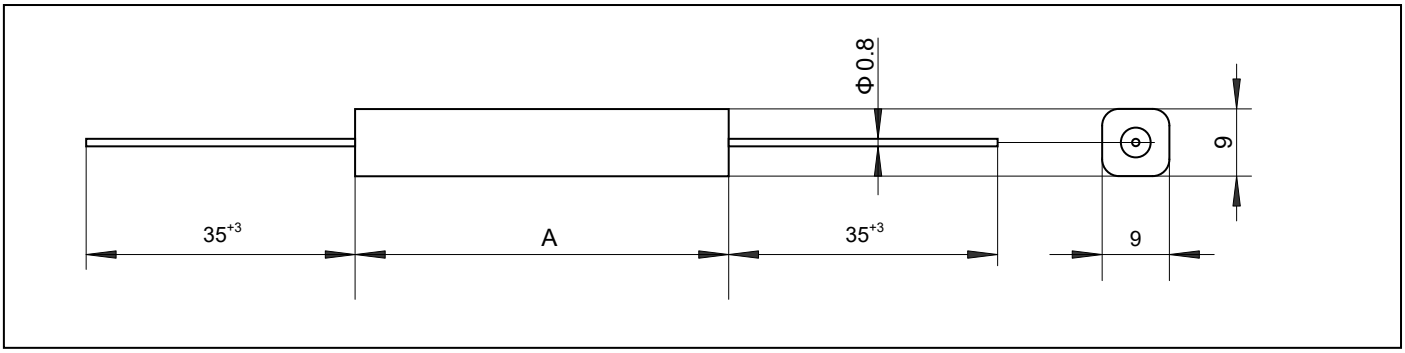
5W - 17W AXIAL LEAD WIRE WOUND RESISTORS

KFD

Features and Applications

Ceramic boated wire wound resistor of high temperature 250°C operation.
Strong over load characteristics are fit for such applications of inverter as motor control electronics, UPS, PV, wind turbine, electric energy storage, train, electric vehicles, industrial measurements, automatic test, switching power supplies, inrush current protection, pre-charge resistor, braking resistor.

Dimensions (mm)



MODEL		KFD0920	KFD0925	KFD0938	KFD0950	KFD0975
Dimensions A		20+/-1 mm	25+/-1 mm	38+/-1 mm	50+/-1 mm	75+/-1 mm
Resistance range, CuNi10		R051-R11	R10 – R22	R18 – R39	R27 – R56	R47 – 1R0
Resistance range, CuNi44		R12 – 9K1	R24 – 18K0	R43 – 33K0	R62 – 47K	1R1 – 82K
Tolerance		K (10%), J(5%)	K (10%), J(5%)	K (10%), J(5%)	K (10%), J(5%)	K (10%), J(5%)
Resistance Values		E12 (10%) E24 (5%)	E12 (10%) E24 (5%)	E12 (10%) E24 (5%)	E12 (10%) E24 (5%)	E12 (10%) E24 (5%)
Power Rating		5W	7W	9W	11W	17W
Dissipation at 25°C	150 °C	2.8W	4.0W	5.3W	6.8W	9.8W
	200 °C	4.1W	6.0W	7.6W	9.4W	14.0W
	255 °C	6.25W	8.25W	12.5W	15.0W	21.25W
Dissipation at 75 °C	200 °C	2.9W	4.2W	5.5W	7.0W	10.0W
	250 °C	4.3W	6.2W	7.8W	9.7W	14.4W
	300 °C	5.0W	7.0W	9.0W	11.0W	17.0W
Dielectric Withstanding Volt		2000 V eff	2000 V eff	2000 V eff	2000 V eff	2000 V eff
Operating Voltage		150V	200V	250V	350V	500V
TCR, Cu Ni10		+350ppm/+450ppm	+350ppm/+450ppm	+350ppm/+450ppm	+350ppm/+450ppm	+350ppm/+450ppm
TCR, Cu Ni44		-80ppm/+200ppm	-80ppm/+200ppm	-80ppm/+200ppm	-80ppm/+200ppm	-80ppm/+200ppm
Max. Surface Temp., Cu Ni10		200 °C	200 °C	200 °C	200 °C	200 °C
Max. Surface Temp., Cu Ni45		300 °C	300 °C	300 °C	300 °C	300 °C

Marking: Stamped, the marking of values Cording to DIN / IEC62

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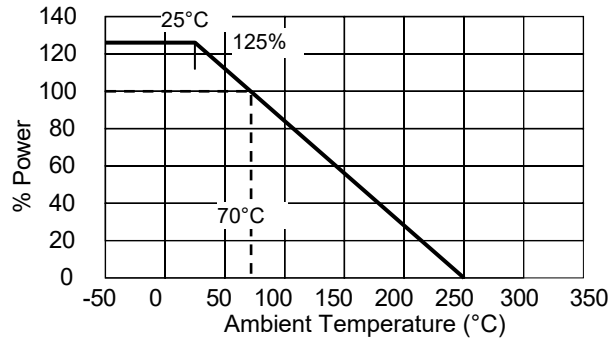
Ordering Information

Model	-	Resistance		Tolerance	RoHS
KFD0925	-	100R		K	Z00
|		|		|	|
KFD0920		E24	>	J (+/-5%)	Z00
KFD0925		E12	>	K (+/-10%)	
KFD0938					
KFD0950					
KFD0975					

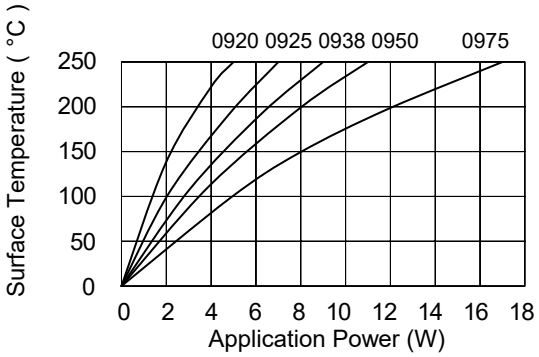
Specifications and Performance

Climatic Category IEC68	-55 / 250 / 10 (-55°C / 250°C / 10 days)
Solderability （260°C, 10seconds）	<= 1% + 0.1Ω
Temperature Cycling (-55 °C / +200 °C)	<= 2% + 0.1Ω
Damp Heat (21 days 40 °C / 95 % RH)	<= 3% + 0.1Ω
Resistance Change 255 °C, 1,000 hours	-1.5 % to +4.0%
Resistance Change 255 °C, 10,000 hours	-2.0 % to +6.0%
Resistance Change 255 °C, 100,000 hours	-3.0 % to +10.0%

Derating



Temperature Rise



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