CRF Series Crowbar Resistor

Dimensions • mm

Dimensions may be customized.

Model	L	W	H
CRF-1500kJ-2.2Ω-J-2	440±5	424±5	139±5
CRF-3MJ-0.9Ω-J-2	400±3	315±3	160±2
CRF-2MJ-0.9Ω-J-2	440±3	390±3	375±3
CRF-1.2kW-0.03Ω-J-3-1	585 +0.2/−0.5	585 +0.2/−0.5	142±5
CRF-5MJ-0.5Ω-J-2	455±2	382±2	410±2



Electrical Specifications

The source lists TCR ≤±1200 and ≤±200 as shared values without model-by-model mapping; confirm before ordering. Power and resistance may be customized.

Model	Power/energy	Temp. °C	Resistance Ω	Tolerance %	TCR ×10□□/K
CRF-1500kJ-2.2Ω-J-2	1.5 MJ	−65~150	2.2	±5, ±10	≤±1200 / ≤±200
CRF-3MJ-0.9Ω-J-2	3 MJ	−65~150	0.9	±5, ±10	≤±1200 / ≤±200
CRF-2MJ-0.9Ω-J-2	2 MJ	−65~150	0.9	±5, ±10	≤±1200 / ≤±200
CRF-1.2kW-0.03Ω-J-3-1	1.2 kW	−65~150	0.03	±5, ±10	≤±1200 / ≤±200
CRF-5MJ-0.5Ω-J-2	5 MJ	−65~150	0.5	±5, ±10	≤±1200 / ≤±200

Main Inspection Items

Item	Test method	Requirement
Insulation resistance	1000 VDC	≥100 MΩ; leakage <5 mA
Voltage withstand	3000 VAC	No breakdown or arcing
Terminal strength	Torque 2.5 N·m	No visible damage; ΔR≤(1%R+0.05Ω)
Damp heat	40±2°C, RH 90–95%, 96 h	No visible damage; ΔR≤(5%R+0.05Ω)
Temperature cycling	−55 to 200°C, 2 cycles; 30 min at each extreme; transition 20–30 s	No visible damage; ΔR≤(2%R+0.05Ω)
Vibration	10–55–10 Hz, 0.35 mm amplitude, 5 cycles	No visible damage; ΔR≤(2%R+0.05Ω)
Salt fog	35±2°C, 96 h	No visible oxidation, rust or damage; ΔR≤(3%R+0.05Ω)

Ordering Information

CRF-5MJ-0.5Ω-J-2

Model / rated power or absorbed energy / nominal resistance / tolerance J±5%, K±10% / phase count 2 single phase, 3 three phase.