JCP Instrument Transformer Resistors

Features

- Non-inductive design
- RoHS compliant; high working voltage
- High stability; designed for instrument transformers



Applications

• Instrument transformers
• Motor drives and control circuits
• Medical equipment (including X-ray systems)
• High-voltage power supplies and new energy systems

Applicable Standard

GB/T 5729-2003: Fixed resistors for use in electronic equipment - Part 1: Generic specification.

Ordering Guide

Model: JCP160/15
Resistance: 20M
Tolerance: 0.5%
Temperature coefficient: 25PPM
Special specifications available by agreement.

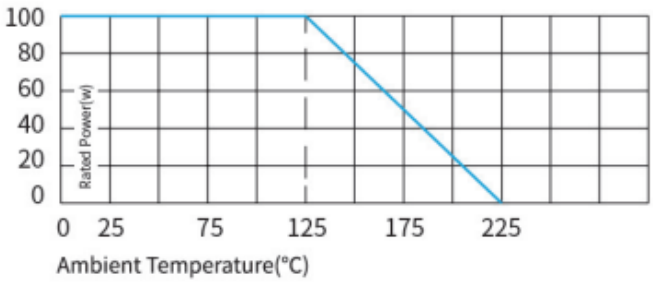
Specifications

Model	Power (W)	Max. continuous working voltage (KV)	Resistance (Ω)	Dimensions (mm / inches)	
				A(±1.00/±0.04)	B(±1.00/±0.04)
JCP80/15	30	35	200-1G	80.00/3.15	16.00/0.63
JCP100/15	40	40	200-1G	100.00/3.94	16.00/0.63
JCP130/15	45	50	200-1G	130.00/5.12	16.00/0.63
JCP160/15	50	60	200-1G	160.00/6.30	16.00/0.63
JCP190/15	65	75	200-1G	190.00/7.48	16.00/0.63
JCP210/15	75	90	200-1G	210.00/8.27	16.00/0.63
JCP80/20	35	35	200-1G	80.00/3.15	21.00/0.79
JCP100/20	45	40	200-1G	100.00/3.94	21.00/0.79
JCP130/20	55	50	200-1G	130.00/5.12	21.00/0.79
JCP160/20	65	60	200-1G	160.00/6.18	21.00/0.79
JCP190/20	75	75	200-1G	190.00/7.48	21.00/0.79
JCP210/20	85	80	200-1G	210.00/8.27	21.00/0.79
JCP280/20	100	90	200-1G	280.00/11.02	21.00/0.79

Technical Specifications

Resistance range	200Ω~1GΩ
Temperature coefficient	±25 ppm/°C to ±80 ppm/°C (25°C to 105°C); other requirements available by agreement.
Load life	1000 h at rated power; ΔR ≤ ±0.15%R
Operating temperature	-40°C ~175°C
Resistance tolerance	0.1%, 0.25%, 0.5%, 1%
End-cap material	Oxidation-resistant nickel-plated copper end caps
Dielectric withstand	1000 VDC (20%-75% relative humidity)
Insulation resistance	Minimum 10 GΩ
Moisture resistance	MIL-Std-202, Method 106; ΔR ≤ ±0.4%R
Thermal shock	MIL-Std-202, Method 107, Condition C; ΔR ≤ ±0.5%R

Power Derating Curve



Outline Drawing

