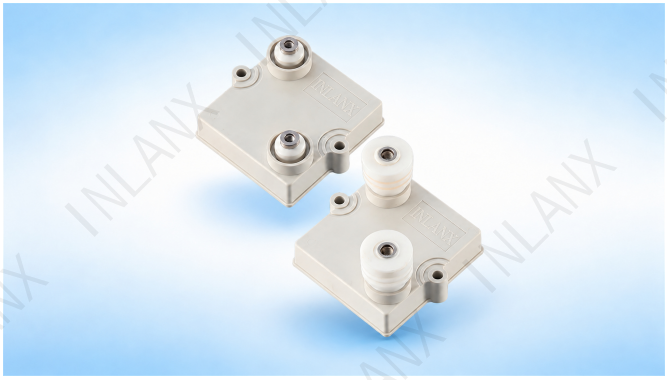
UXPA600 Series Planar High-Power Resistors



Applications

- Widely used in instrument transformers
- Motor drives and control circuits
- Medical equipment (X-ray, etc.)
- High-voltage supplies and new-energy applications

Technical Features

- Thick-film, non-inductive design
- Complies with ROHS requirements
- Good pulse load capability
- Easy to install
- All raw materials meet UL94V-0
- For power generation, transmission, variable-speed drives and other electrical equipment

Applicable Standards

IEC60115-1:2001(GB/T5729-2003)、MIL-STD-202、MIL-R-39009D

Ordering Guide

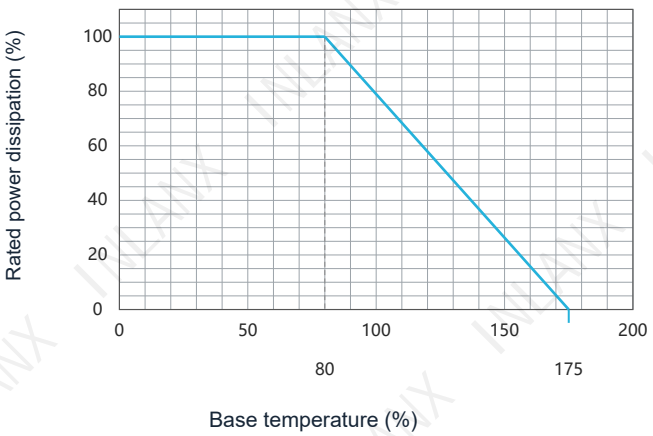
Model: UXPA600

Resistance: 100R

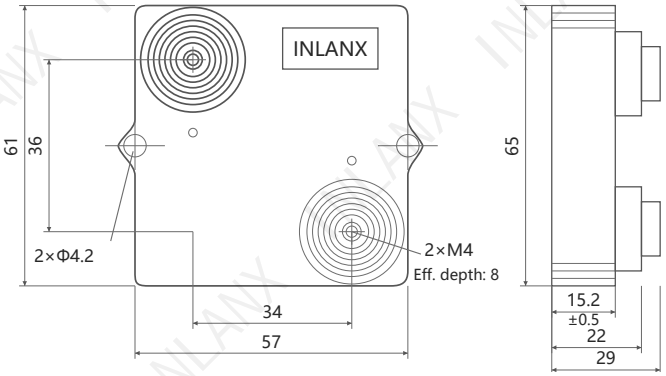
Tolerance: 5%

Special specifications can be customized by agreement.

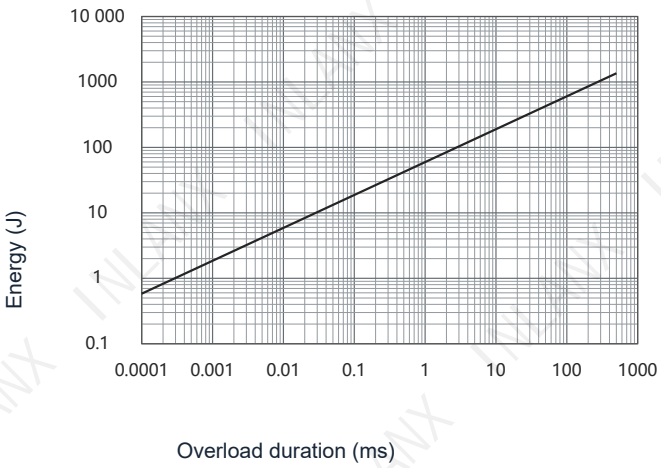
Power Derating Curve



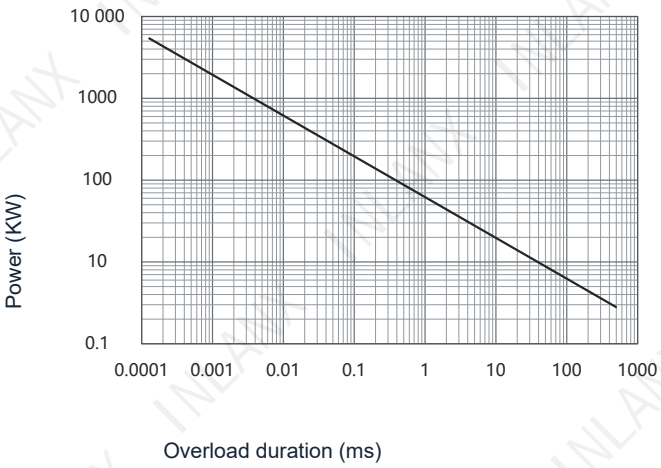
Dimensions



E - Energy Curve



Power Curve



Main Technical Specifications

Item	Specification
Resistance range	1Ω~1MΩ
Resistance tolerance	±5% ~ ±10%
Temperature coefficient	±150PPM/°C (25°C ~ 105°C); other requirements by agreement
Baseplate center ≤85°C	Rated power: 600W
Max. working voltage	5KVDC
Peak current	Up to 1500 Amp at low resistance and short pulse widths
Insulation withstand	6KVrms, 50Hz; up to 12KVrms on request
Insulation resistance	500V, minimum 10GΩ
Moisture resistance	56 days / 40°C, RH≥95%, ΔR≤±(0.25%+0.001Ω)
Operating temperature	-55℃~150℃
Temperature cycling	-55°C / +125°C (0.5h each), 5 cycles; ΔR≤±(0.2%+0.001Ω)
High-frequency vibration	MIL-Std-202,Method 204,cond.D, ▵R≤±(0.2%+0.001Ω)
Short-time overload	1.5 times, 70°C, 10 seconds; ΔR≤±(0.4%+0.001Ω)
Terminal mounting	M5/M4 screws, maximum torque 2Nm
Resistor mounting	M4 screws, maximum torque 1.8Nm
Inductance	≤80nH
Distributed capacitance (Mass)	≤110pF
Distributed capacitance (Parallel)	≤40pF