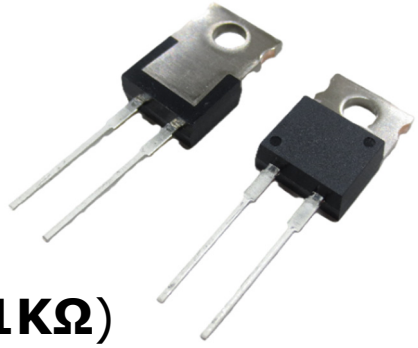
TO220 High Power Resistor

RNP-50U

Enables space-saving PCB design!



50W High Power Rated
Wide Range Resistance(**0.02Ω～51KΩ**)
AEC-Q200 Qualified & Reliable Track Record

Performance

This 50W TO220 packaged resistor accepts even high watts applied power alone (With flange temperature at 25℃). High power performance while being compact, with the same size as a 35W component. Great performance on the high frequency circuits and high-speed pulse circuits thanks to the high maximum operation temperature at +175℃ and the non-inductive resistance. The lowest thermal resistance in the TO220 market, which is 2.3 ℃/W. The flange junction structure by the thin film production technology strengthens the performance reliability. AEC-Q200 qualified. Molded with the ULV94V-0 fire-resistant sheathing resin.

Effective Use

Single RNP-50U is equivalent to multiple resistors on the circuit board and that minimize the mounting site.

***We also offer the RNP-50E series in a surface-mount version.**

Applications

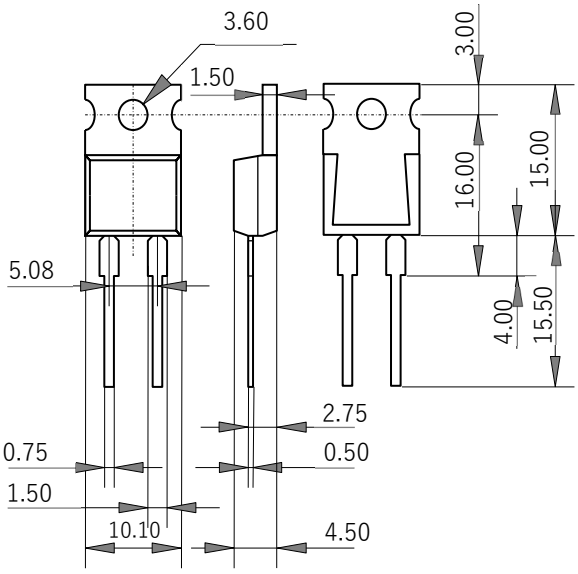
Power Supply Devices, Motor Drive Equipment, Inverters, High-frequency Power Supply Devices, Electronic Load Devices, Automotive Electrical Equipment, Industrial Instruments, Harmonic Filter Resistors, Bleeder Resistors, Snubber Resistors, Damping Resistors, Gate Drive Resistors etc…

Rated and Specification

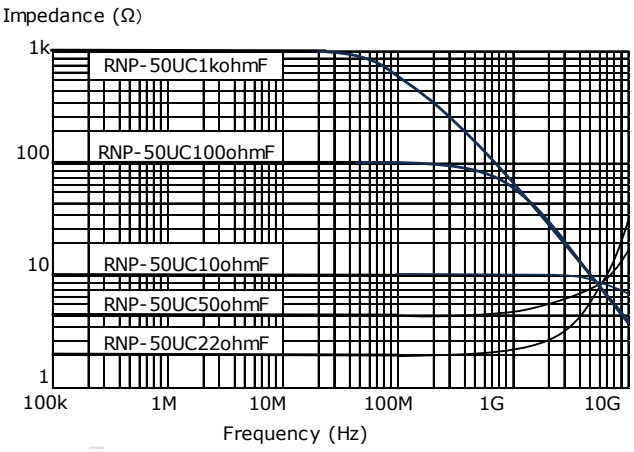
Rated Power	50 W*1
Resistance Range	0.02Ω～51KΩ
Tolerance	±1% *2
TCR	50～100 ppm/℃
Thermal Resistance	2.3 ℃/W*3
Capacitance	1.69pF
Inductance	9.65nH
Operation Temp.	-55 ℃ to +175 ℃

*1 : When the flange at -55℃～+25℃
*2 : 0.02Ω～0.091Ω—5%、0.1Ω～51KΩ—1%
*3 : Between the flange and the resistance.

Dimensions (mm)



Frequency Characteristics



For further inquiries, samples, or quotations, feel free to contact to us.

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