



RXH 40A – 50B Series Datasheet

High Power Wirewound Resistors, Aluminium Alloy Housed

ORDERING CODE-Example

New SAP Part Nr.:

| RXH | 40A | J | B | - | SM- | 1R5 | AA |
|--------|--|---------------------|-----------|-----------------|------------------------|---------|---------------|
| Series | Power rating | Tol. | Pack-Code | TCR | Forming type | R Value | Special |
| | 40A = 40[W] 50A = 50[W] 60A = 60 [W] 65A = 65[W] 80A = 80[W] 10B = 100[W] 12B = 120[W] 15B = 150[W] 20B = 200[W] 30B = 300[W] 40B = 400[W] 50B = 500[W] | J = ±5% K = ±10% | B = Bulk | - Base on spec. | SM- = Special mounting | | AA = Standard |

Historical VTM Part Nr.:

| RXLG40 | 5 | B | 1R5 |
|--------|------|-----------|---------|
| Type | Tol. | Pack-Code | R Value |

APPLICATIONS

- Transportation
- Industrial
- Alternative Energy

FEATURES

Other Ohmic values available upon request

Heat and mechanical shock protected

Aluminium house brake resistor

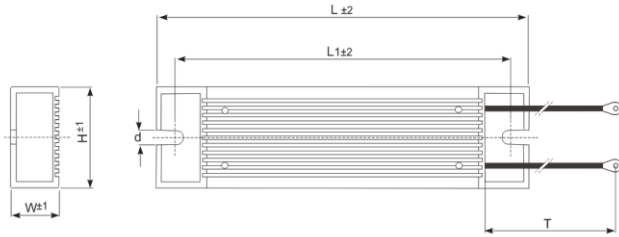
RoHS & REACH Compliant

ELECTRICAL SPECIFICATIONS

| Type | | RXH40A | RXH50A | RXH60A | RXH65A | RXH80A | RXH10B | RXH12B | RXH15B | RXH20B | RXH30B | RXH40B | RXH50B |
|---|--------------------------------------|--------------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Historical part number | | RXLG40 | RXLG50 | RXLG60 | RXLG65 | RXLG80 | RXLG100 | RXLG120 | RXLG150 | RXLG200 | RXLG300 | RXLG400 | RXLG500 |
| Nominal Power Rating P ₂₅ | [W] | 40 | 50 | 60 | 65 | 80 | 100 | 120 | 150 | 200 | 300 | 400 | 500 |
| Resistance Value | [Ω] | Min | R5 | | | | | | | | | | |
| | | Max | 200R | 300R | 430R | 400R | 910R | 1K | 1K2 | 1K5 | 2K4 | 2K7 | 3K9 |
| Tolerances | ±[%] | 5 (J), 10 (K) | | | | | | | | | | | |
| Temperature Coefficient | ±[10 ⁻⁶ K ⁻¹] | ±260 | | | | | | | | | | | |
| Working Temperature Range | [°C] | -40 ... +300 | | | | | | | | | | | |
| Dielectric Withstanding Voltage IEC115-1 clause 4.7 (50[Hz/1minute], ≤1mA, 2000V) | [V] _{RMS} | 2000 | | | | | | | | | | | |
| Maximum Working Voltage | | $\sqrt{P_{70} \times R}$ | | | | | | | | | | | |

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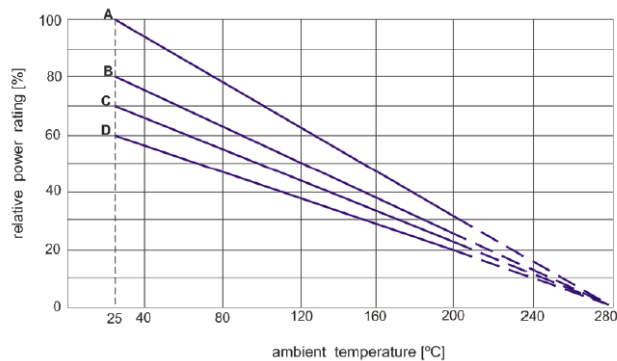
DIMENSIONS [mm]



| Type | Historical P/N: | L | L ₁ | H | W | T | d |
|--------|-----------------|-----|----------------|----|----|--------------------|-----|
| RXH40A | RXLG40 | 95 | 84 | 40 | 20 | 160 ^{±30} | 4,2 |
| RXH50A | RXLH50 | 118 | 100 | 40 | 20 | | |
| RXH60A | RXLG60 | 115 | 98 | 40 | 20 | | |
| RXH65A | RXLG65 | 150 | 134 | 40 | 20 | 300 ^{±10} | 5,6 |
| RXH80A | RXLG80 | 140 | 123 | 40 | 20 | | |
| RXH10B | RXLG100 | 165 | 148 | 40 | 20 | | |
| RXH12B | RXLG120 | 190 | 173 | 40 | 20 | | |
| RXH15B | RXLG150 | 215 | 198 | 40 | 20 | | |
| RXH20B | RXLG200 | 165 | 147 | 60 | 30 | | |
| RXH30B | RXLG300 | 215 | 197 | 60 | 30 | | |
| RXH40B | RXLG400 | 265 | 247 | 60 | 30 | | |
| RXH50B | RXLG500 | 335 | 317 | 60 | 30 | | |

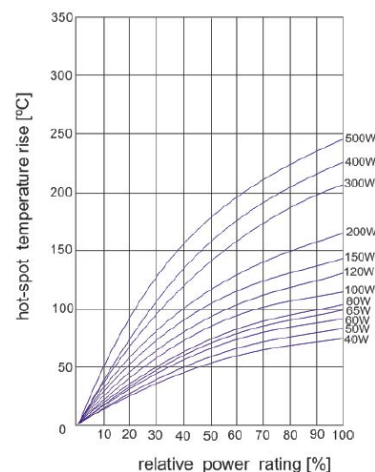
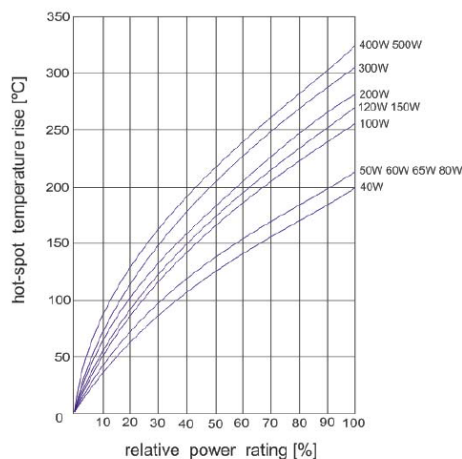
ELECTRICAL CHARACTERISTICS

Derating Curve



Note: **A** heat – sink 200x200x3mm (40W ... 150W) - heat – sink 400x400x3mm (200W ... 500W)
B without heat – sink (40W ... 150W)
C without heat – sink (200W , 300W)
D without heat – sink (400W , 500W)

Temperature Rise Curve



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PERFORMANCE DATE

| Type | | RXH40A | RXH50A | RXH60A | RXH65A | RXH80A | RXH10B | RXH12B | RXH15B | RXH20B | RXH30B | RXH40B | RXH50B |
|--|----------------------------|---------------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Historical part number | | RXLG40 | RXLG50 | RXLG60 | RXLG65 | RXLG80 | RXLG100 | RXLG120 | RXLG150 | RXLG200 | RXLG300 | RXLG400 | RXLG500 |
| Failure Rate | $[10^{-9} \text{ h}^{-1}]$ | appr. 10 depends on value | | | | | | | | | | | |
| Endurance <i>IEC60115-1 clause 4.25</i> <i>(P_{70} @ 70°C, 500[h]), 1,5[h]ON ;</i> <i>0,5[h]OFF)</i> | $\pm[\%]$ | 5,0 | | | | | | | | | | | |
| Damp Heat, Steady State <i>IEC60115-1 clause 4.24 ;</i> <i>IEC60068-2-78</i> <i>(40°C, 93% r.h., 56[d])</i> | $\pm[\%]$ | 5,0 | | | | | | | | | | | |
| Thermal Shock <i>Rated power dissipation voltage for</i> <i>30[<i>min.</i>]</i> <i>40°C, 8~12[<i>sec.</i>], after 15 [min.]</i> | $\pm[\%]$ | 2,0 | | | | | | | | | | | |
| Terminal tensile strength | [N] | 50 | | | | | | | | | | | |
| Marking <i>IEC60062</i> | | Print in clear | | | | | | | | | | | |