

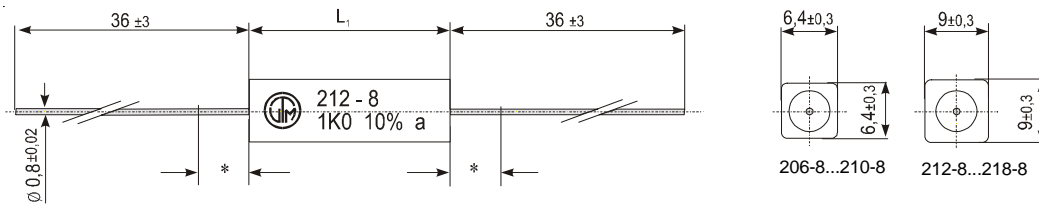
Power Wirewound Ceramic Resistors, axial



Specifications

| Type | | KH206-8 | KH208-8 | KH210-8 | KH212-8 | KH214-8 | KH216-8 | KH218-8 |
|---|--------------------------------------|--|---------|---------|---------|---------|---------|---------|
| Power rating P_{70} | W | 4 | 5 | 7 | 7 | 9 | 11 | 17 |
| Resistance range | Ω | see page 2 | | | | | | |
| E-Series | | E 24 (5%), E 12 (10%) | | | | | | |
| Tolerances | % | $\pm 5, \pm 10$ | | | | | | |
| Temperature coefficient | $10^{-6} \cdot K^{-1}$ | depends on value see table 3 | | | | | | |
| max. cont. work. voltage | V_{RMS} | $\sqrt{P_{70} \cdot R}$ for all styles | | | | | | |
| Insulation voltage (1min.) | V_{RMS} | 2000 | | | | | | |
| Insulation resistance | Ω | $> 10^4$ | | | | | | |
| Derating linear | $^{\circ}C$ | linear 70 ... 350 (0W) | | | | | | |
| Climatic category | | 55/200/21 | | | | | | |
| Temperature range | $^{\circ}C$ | - 55 ... 350 | | | | | | |
| Thermal resistance | KW^{-1} | 65 | 50 | 40 | 40 | 30 | 25 | 15 |
| Failure rate (Total, ϑ_o , max., 60% conf. lev.) | $10^{-9} \cdot h^{-1}$ | appr. 100, depends on value | | | | | | |
| Endurance (P_{70} , 70 $^{\circ}C$, 1000h) | $\left[\frac{\Delta R}{R}\right] \%$ | $\pm 3,0$ average | | | | | | |
| Damp heat, steady state (40 $^{\circ}C$, 93% r.h., 56d) | $\left[\frac{\Delta R}{R}\right] \%$ | $\pm 2,0$ | | | | | | |
| Climatic sequence | $\left[\frac{\Delta R}{R}\right] \%$ | $\pm 2,0$ | | | | | | |
| Terminal strength | $\left[\frac{\Delta R}{R}\right] \%$ | $\pm 1,0$ | | | | | | |
| Terminal tensile strength | N | 50 | | | | | | |
| Resistance to soldering heat (260 $^{\circ}C$, 10s) | $\left[\frac{\Delta R}{R}\right] \%$ | $\pm 0,2$ typ. | | | | | | |
| Solderability | s | 2,5 Flowtime; solderglobule test IEC 60068-2-20-T | | | | | | |
| Standards | | CECC 40202-001 and -005 applicable DIN 45921 T 202 | | | | | | |
| Marking | | Printed in clear | | | | | | |

Dimensions in mm:



* 6mm, reduced solderability in this area

| Type | Resistance range | | | L_1 |
|---------|------------------|-----------|-----|--------------|
| | 10% Min | 5% Min | Max | |
| KH206-8 | 0R056 | 0R1 | 9K1 | $20 \pm 1,0$ |
| KH208-8 | 0R075 | 0R15 | 15K | $25 \pm 1,0$ |
| KH210-8 | 0R11 | 0R33 | 33K | $38 \pm 1,0$ |
| KH212-8 | 0R075 | 0R15 | 15K | $25 \pm 1,0$ |
| KH214-8 | 0R11 | 0R33 | 33K | $38 \pm 1,0$ |
| KH216-8 | 0R15 | 0R51 | 47K | $50 \pm 1,5$ |
| KH218-8 | 0R27 | 0R91 | 82K | $75 \pm 2,0$ |

Temperature coefficient:

| Type | TC +400 ± 50 ppm K ⁻¹ | TC 0 ± 40 ppm K ⁻¹ | TC 0 ± 10 ppm K ⁻¹ |
|-------|--------------------------------------|-----------------------------------|-----------------------------------|
| KH206 | 0R056 ... 0R2 | 0R22 ... 300R | 330R ... 9K1 |
| KH208 | 0R075 ... 0R3 | 0R33 ... 470R | 510R ... 15K |
| KH210 | 0R11 ... 0R68 | 0R75 ... 910R | 1K0 ... 33K |
| KH212 | 0R075 ... 0R3 | 0R33 ... 470R | 510R ... 15K |
| KH214 | 0R11 ... 0R68 | 0R75 ... 910R | 1K0 ... 33K |
| KH216 | 0R15 ... 1R | 1R1 ... 1K3 | 1K5 ... 47K |
| KH218 | 0R27 ... 1R6 | 1R8 ... 2K4 | 2K7 ... 82K |

Packaging:

| Type | Packaging | Pieces | Pack.-Code |
|---------|-----------|--------|------------|
| KH206-8 | bulk | 200 | B |
| | taped | 1000 | R |
| KH208-8 | bulk | 200 | B |
| | taped | 1000 | R |
| KH210-8 | bulk | 200 | B |
| | taped | 1000 | R |
| KH212-8 | bulk | 200 | B |
| | taped | 500 | R |
| KH214-8 | bulk | 100 | B |
| | taped | 500 | R |
| KH216-8 | bulk | 100 | B |
| KH218-8 | bulk | 100 | B |

Ordering example:

KH206-8 5 B 9R1
 Type Tolerance Pack.-Code R-Value

Revision 200807