

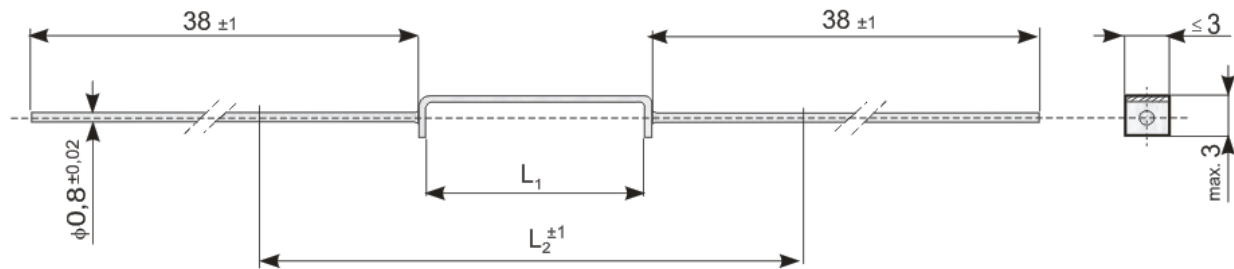
Power shunt Resistors
Axial, low inductance and low ohmic
Open frame



| ELECTRICAL SPECIFICATIONS | | | | |
|--------------------------------------------------------------------------------------|----------------------------|---------|--------------------------------------|---------|
| Type | | KN350-0 | KN351-0 | KN352-0 |
| <u>Nominal Power rating</u> P_{70} | [W] | 1 | 2 | 3 |
| <u>Resistance range</u> | [Ω] Min | 0R003 | 0R004 | 0R005 |
| | Max | 0R051 | 0R068 | 0R1 |
| <u>E-Series</u> | | | E24 >0R01 | |
| <u>Tolerances</u> | \pm [%] | | 1, 2, 3, 5 | |
| <u>Temperature coefficient</u> | [$10^{-6} \cdot K^{-1}$] | | + 200 ... + 1200 Depends on value | |
| <u>Temperature range</u> | [$^{\circ}C$] | | -55 ... +300 | |
| <u>Thermal resistance</u> | [KW^{-1}] | 200 | 100 | 70 |
| <u>Dielectric withstanding voltage</u> <i>IEC115-1 clause 4.7 (1[<i>min</i>])</i> | [V] | | non insulated | |
| <u>Max. working voltage</u> | [V] _{RMS} | | $\sqrt{P_{70} \cdot R}$ | |

| PERFORMANCE DATA | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--|-------------------------------------|--|
| <u>Derating linear</u> | [$^{\circ}C$] | | 70...300 (0W) | |
| <u>Climatic category</u> | | | 55/200/56 | |
| <u>Failure Rate</u> <i>(Total, ρ_0, max, 60% cont. lev.)</i> | [$10^{-9} h^{-1}$] | | appr. 10 depends on value | |
| <u>Endurance</u> <i>IEC60115-1 clause 4.25 (P_{70}, @ 70[$^{\circ}C$], 1000[h])</i> | \pm [%] | | 3,0 | |
| <u>Damp heat, steady state</u> <i>IEC115-1 clause 4.24 (40[$^{\circ}C$], 93[% r.h.], 56[d])</i> | \pm [%] | | 0,5 | |
| <u>Climatic sequence</u> <i>IEC115-1 clause 4.23</i> | \pm [%] | | 0,5 | |
| <u>Terminal strength</u> | \pm [%] | | 0,5 | |
| <u>Terminal Tensile Strength</u> | [N] | | min. 25 | |
| <u>Resistance to soldering heat</u> <i>IEC115-1 clause 4.18 (260$^{\pm 5}$[$^{\circ}C$], 3,5$^{\pm 1}$[s])</i> | \pm [%] | | $\pm 0,2$ | |
| <u>Solderability</u> <i>IEC 60068-2-20-T (245$^{\pm 5}$[$^{\circ}C$], 3$^{\pm 0,5}$[s])</i> | | | Solder bath method (> 95% coverage) | |
| <u>Marking</u> <i>IEC60062</i> | | | Value imprinted | |

DIMENSIONS [mm]



| Type | L1 | L2 |
|---------|---------------|----|
| KN350-0 | 12 ... 14,5 | 40 |
| KN351-0 | 17,5 ... 21,5 | 45 |
| KN352-0 | 29 ... 34 | 60 |

Measuring length L_2 : Resistance value is measured over the centered length L_2 on terminals free of oxide and contaminations. Differing conditions require adequate corrections ($R_{\text{terminal}} = 0,4 \text{ [m}\Omega\text{/cm]}$).

PACKAGING

The standard packaging for KN in axial type is bulk, dimensions below.



| Type | Packaging | Pieces | Pack. Code |
|-------|-----------|--------|------------|
| KN350 | Bulk | 500 | B |
| KN351 | | 500 | |
| KN352 | | 500 | |

ORDERING EXAMPLE

| | | | |
|---------|-----------|-----------|---------|
| KN351-0 | 5 | B | 0R015 |
| Type | Tolerance | Pack-Code | R-Value |