

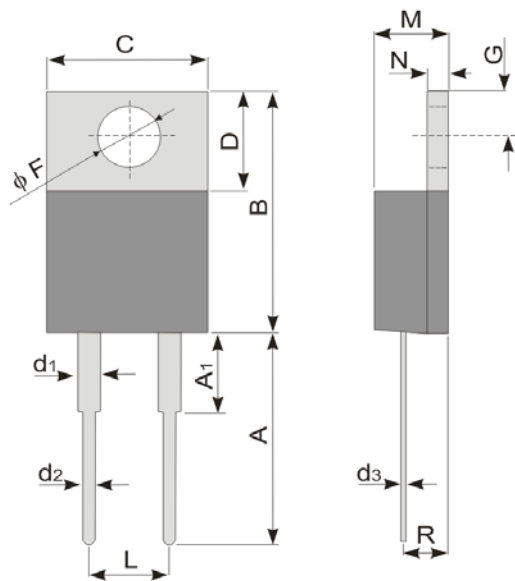
Power Thick Film Resistors

Radial, Moulded, TO - 220 package



| ELECTRICAL SPECIFICATIONS | | | RTP35 | RTP50 |
|---|----------------------------------|--------------------------------------|---|--------------|
| Type | | | | |
| <u>Nominal Power rating</u> | P ₂₅ With heatsink | [W] | 2,5 35 | 5 50 |
| <u>Resistance range</u> | | [Ω] | 0R1 up to 1M | 0R1 up to 1K |
| <u>E-Series</u> | | | E24 | |
| <u>Tolerances</u> | | ± [%] | 0,5, 1, 5, 10, 20 | |
| <u>Temperature coefficient</u> | | [10 ⁻⁶ *K ⁻¹] | 250 / 300 (50, 100 and 150 Upon request) | |
| <u>Temperature range</u> | | [°C] | -55 ... +125 | |
| <u>Thermal resistance</u> | | [KW ⁻¹] | 4,5 | 3 |
| <u>Dielectric withstanding voltage</u> <i>IEC115-1 clause 4.7 (1[<i>min</i>])</i> | | [V] _{RMS} | 1800 | |
| <u>Max. working voltage</u> | | [V] _{RMS} | 350 | |
| <u>Insulation resistance</u> <i>IEC115-1 clause 4.6</i> | | [GΩ] | 10 | |
| PERFORMANCE DATA | | | | |
| <u>Derating linear</u> | | [°C] | 25...125 (0W) | |
| <u>Climatic category</u> | | | 55/125/56 | |
| <u>Endurance</u> <i>IEC60115-1 clause 4.25</i> <i>(P₇₀, @ 70[°C], 1000[h])</i> | | ± [%] | 1,0 | |
| <u>Damp heat, steady state</u> <i>IEC115-1 clause 4.24</i> <i>(40[°C], 93[% r.h.], 56[d])</i> | | ± [%] | 1,0 | |
| <u>Climatic sequence</u> <i>IEC115-1 clause 4.23</i> | | ± [%] | 1,0 | |
| <u>Short Time Overload</u> <i>IEC60115-1 clause 4.13</i> <i>(U = √5 × P₇₀ × R, 5 sec.)</i> | | ± [%] | 0,25 | |
| <u>Temperature shock</u> <i>IEC115-1 clause 4.19</i> | | ± [%] | 0,25 | |
| <u>Solderability</u> <i>IEC 60068-2-20</i> <i>(245^{±3}[°C] 3^{±0,3}[s])</i> | | | Solder bath method (min. 95[%] coverage) | |
| <u>Marking</u> <i>IEC60062</i> | | | Printed in clear | |

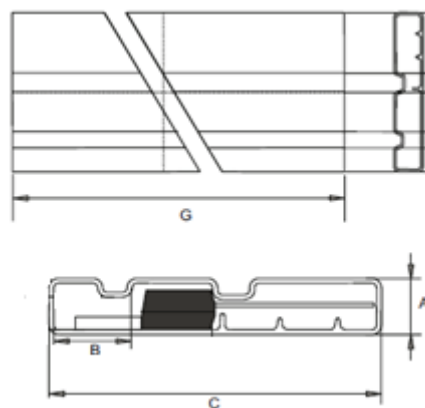
DIMENSIONS [mm]



| Type | RTP35 / RTP50 |
|------|---------------|
| A | 14,8 |
| A1 | 2,9 |
| B | 15,2 |
| C | 10,2 |
| D | 6 |
| F | 3,6 |
| G | 2,8 |
| L | 5,08 |
| M | 4,5 |
| N | 1,25 |
| R | 2 |
| d1 | 1,34 |
| d2 | 0,86 |
| d3 | 0,5 |

PACKAGING

The standard packaging for RTP, dimensions below.



| Type | RTP35 / RTP50 |
|-----------|---------------|
| A [mm] | 7 |
| B [mm] | 18,2 |
| C [mm] | 33 |
| G [mm] | 220 |
| Packaging | Tube |
| Pieces | 20 |

ORDERING EXAMPLE

| RTP35 | J | S | U | 150R |
|-------|-----------------|-----------|----------------------------------|---------|
| Type | Tolerance | Pack-Code | TC | R-Value |
| | D $\pm 0,5$ [%] | Tube | R 50 [$10^{-6} \cdot K^{-1}$] | |
| | F ± 1 [%] | | S 100 [$10^{-6} \cdot K^{-1}$] | |
| | J ± 5 [%] | | T 150 [$10^{-6} \cdot K^{-1}$] | |
| | K ± 10 [%] | | U 250 [$10^{-6} \cdot K^{-1}$] | |
| | M ± 20 [%] | | V 300 [$10^{-6} \cdot K^{-1}$] | |