

Power Wirewound Resistors
flame retardant, safety version



Specifications

| Type | | CRF251-4 | CRF252-4 | CRF253-4 | CRF254-4 | CRF256-4 | CRF257-4 |
|---|--------------------------------|--|----------|----------|----------|----------|----------|
| Nominal Power rating P_{40} P_{70} | W | 1,1 | 2,0 | 2,5 | 3,0 | 4,0 | 5,0 |
| | | 1,0 | 1,6 | 2,0 | 2,5 | 3,5 | 4,3 |
| Resistance range | Ω | see next page (higher values upon request) | | | | | |
| E-Series | | E 24 | | | | | |
| Tolerances | % | ± 5 | | | | | |
| Temperature coefficient | $10^{-6} * K^{-1}$ | 120 ± 50 | | | | | |
| max. cont. work. voltage | V_{RMS} | $\sqrt{P_{70} \cdot R}$ | | | | | |
| Insulation voltage (1min.) | V_{RMS} | max 75V | | | | | |
| Insulation resistance | | not insulated | | | | | |
| Derating linear | $^{\circ}C$ | 70 ... 350 (0W) | | | | | |
| Climatic category | Ω | 55/350/56 | | | | | |
| Temperature range | $^{\circ}C$ | - 55 ... 350 | | | | | |
| Thermal resistance | KW^{-1} | 125 | 100 | 85 | 65 | 65 | 48 |
| Failure rate (Total, J_o , max., 60% conf. lev.) | $10^{-9} * h^{-1}$ | appr. 10, depends on value | | | | | |
| Endurance (P_{70} , $70^{\circ}C$, 1000) | $\left[\frac{DR}{R}\right] \%$ | $\pm 5,0$ average | | | | | |
| Damp heat, steady state ($40^{\circ}C$, 93% r.h., 56d) | $\left[\frac{DR}{R}\right] \%$ | $\pm 5,0$ | | | | | |
| Climatic sequence | $\left[\frac{DR}{R}\right] \%$ | $\pm 2,0$ | | | | | |
| Terminal strength | $\left[\frac{DR}{R}\right] \%$ | $\pm 0,2$ | | | | | |
| Terminal tensile strength | N | 40 | | 50 | | | |
| Resistance to soldering heat ($260^{\circ}C$, 10s) | $\left[\frac{DR}{R}\right] \%$ | $\pm 0,5$ | | | | | |
| Solderability | s | 2,5 Flowtime, solderglobule test, IEC 60068-2-20 | | | | | |
| Marking | | printed in clear | | | | | |

| Type | Resistance range | |
|----------|------------------|------|
| | min. | max. |
| CRF251-4 | *1R0 | 100R |
| CRF252-4 | *1R0 | 240R |
| CRF253-4 | *1R0 | 330R |
| CRF254-4 | *1R0 | 330R |
| CRF256-4 | *1R0 | 330R |
| CRF257-4 | *1R0 | 330R |

Note: The special construction of resistance values >10R results in an immediate interruption (<1s, 200ms typical) when mains voltage (220V/240V_{RMS}) is applied. No flames, no explosion. After fusing, the resistance value is >100KOhm.

For other voltages test suitability in the application!

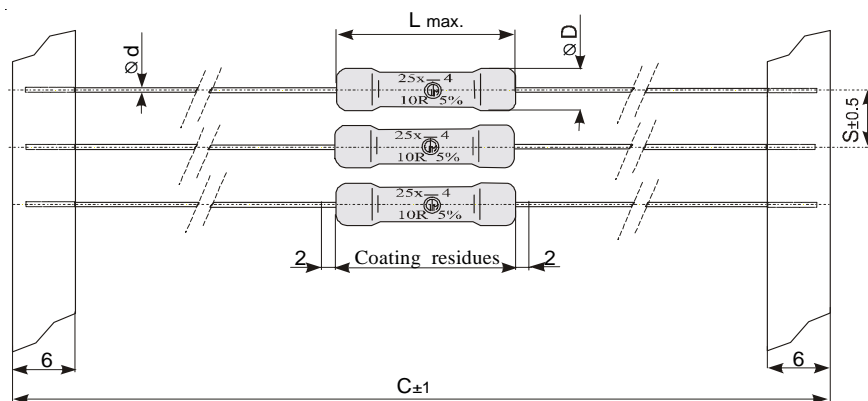
* Resistance values < 10R are flame retardant.

The interruption mechanism is not clearly defined and has to be tested in the final application!

| Type | L max. | ØD max. | Ød |
|----------|--------|---------|------|
| CRF251-4 | 9,0 | 3,0 | 0,65 |
| CRF252-4 | 9,7 | 4,0 | 0,80 |
| CRF253-4 | 14,5 | 4,5 | 0,65 |
| CRF254-4 | 12,6 | 6,0 | 0,80 |
| CRF256-4 | 17,0 | 6,0 | 0,80 |
| CRF257-4 | 18,0 | 8,5 | 0,80 |

*R <10R Dmax. +1

Dimensions in mm:



Packaging:

| Type | Packaging | Pieces | Code | C | S |
|----------|----------------|--------|------|----|----|
| CRF251-4 | taped/Ammopack | 1000 | T | 65 | 5 |
| CRF252-4 | taped/Ammopack | 1000 | T | 65 | 5 |
| CRF253-4 | taped/Ammopack | 1000 | T | 85 | 10 |
| CRF254-4 | taped/Ammopack | 1000 | T | 85 | 10 |
| CRF256-4 | taped/Ammopack | 1000 | T | 85 | 10 |
| CRF257-4 | taped/Ammopack | 500 | T | 85 | 10 |

Ordering example: CRF254-4 5 T 15R
 Type Tolerance Pack.-Code R-Value

Revision 200907

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Wirewound Resistors - Through Hole category](#):

Click to view products by [Vitrohm manufacturer](#):

Other Similar products are found below :

[75822-2K4](#) [90J56R](#) [AC03000001208JAC00](#) [EP3WS47RJ](#) [C1010KJL](#) [C1015RJL](#) [C3A10KJT](#) [27J1K0](#) [ES3W47RJ](#) [AC04000001500JAC00](#)
[AC10000002208JAB00](#) [AC10000004708JAB00](#) [SQMW5R39J](#) [SQPW5R22J](#) [SQPW5R33J](#) [1879927-3](#) [FCB2100RJ](#) [T505](#) [FSQ5WR47J](#)
[FW10A33R0JA](#) [CPCC03R5000JB31](#) [CPCC0510R00JE32](#) [CPCC051R000JB31](#) [CPCP10500R0JE32](#) [CPW05700R0JE143](#)
[CPW152K500JE313](#) [C1010RJL](#) [C10R47JL](#) [C141K0JL](#) [C144R7JL](#) [ES05W100RJ](#) [SQMW1047RJ](#) [SQMW210RJ](#) [CPCC03R2000JB31](#)
[CPCC0515R00JE01](#) [CPW055R000JB143](#) [CPW103K300JE143](#) [CPW202R000JB14](#) [ULW5-39R0JT075](#) [W31-R47JA1](#) [ULW5-68RJT075](#)
[SQBW401K0JFASTON](#) [SPH1001JLF](#) [65888-3R3](#) [CPCC10R5100JE66](#) [SQP500JB-400R](#) [SQBW403R3JFASTON](#) [280-PRM7-4.7-RC](#)
[CW02B9R100JE73](#) [CPCP05R1000JE32](#)