

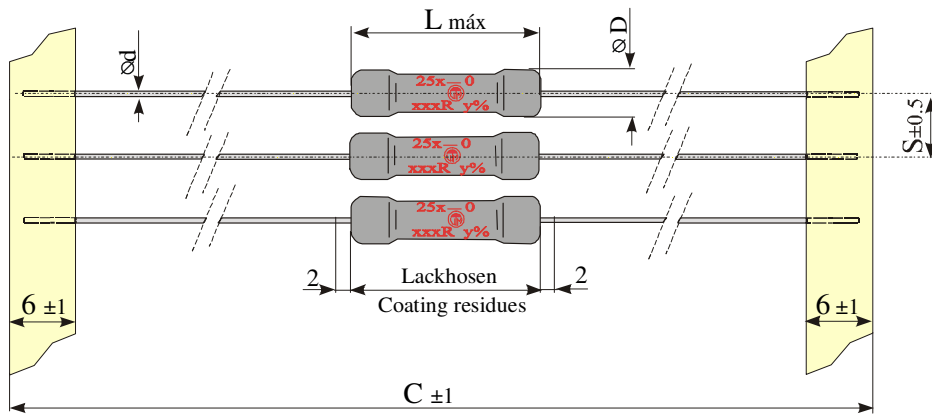


## Precision Power Wirewound Resistors, ceramic carrier, coated, axial

### Specifications

Type		CR 251-0	CR 252-0	CR 253-0	CR 254-0	CR 255-0	CR 256-0	CR 257-0	CR 258-0	CR 259-0
Nominal Power rating $P_{40}$ $P_{70}$	W	1,1 1,0	2,0 1,6	2,5 2,0	3,0 2,5	3,3 3,0	4,0 3,5	5,0 4,3	5,5 5,0	7,2 6,5
Resistance range	$\Omega$	See Page 2								
Tolerances	%	Rmin. ...Rmax.: $\pm 5$ , $\pm 2$ , $\pm 1$ ; $R \geq 1R$ : $\pm 0,5$								
Temperature coefficient	$10^{-6} \cdot K^{-1}$	See Page 2								
Max. working voltage	$V_{RMS}$	$\sqrt{P_{70} \cdot R}$								
Insulation voltage (1min.)	$V_{RMS}$	max 75 V								
Insulation resistance	$\Omega$	not insulated								
Derating linear	$^{\circ}C$	70...350 (0W)								
Climatic category		55/200/56								
Temperature range	$^{\circ}C$	-55 ~ 350								
Thermal resistance	$KW^{-1}$	125	100	85	65	55	65	48	45	35
Failure Rate (Total, $\vartheta_0$ , max, 60% cont. lev.)	$10^{-9} h^{-1}$	appr. 100 depends on value								
Endurance ( $P_{70}$ , 70 $^{\circ}C$ , 1000h)	$[\Delta R/R] \%$	$\pm 3,0$ average								
Damp heat, steady state (40 $^{\circ}C$ , 93% r.h., 56d)	$[\Delta R/R] \%$	$\pm 1,0$								
Climatic sequence (IEX 115-1/23)	$[\Delta R/R] \%$	$\pm 1,0$								
Terminal strength	$[\Delta R/R] \%$	$\pm 0,2$								
Terminal Tensile Strength	N	40								50
Resistance to soldering heat (260 $^{\circ}C$ , 3,5s)	$[\Delta R/R] \%$	$\pm 0,2$ typ.								
Solderability	s	2,5 Flowtime; solderglobule test, IEC 60068-2-20-T								
Marking		Printed in clear								

Dimensions in mm:



Type	Temperature Coefficient ( -20°C to 120°C )									
	500 +400 ppm/K		400 ± 50 ppm/K		appr. +180 ppm/K		0 ± 20 ppm/K		0 ± 10 ppm/K	
251-0	-----	-----	≥ 0R01	≤ 0R024	≥ 0R027	≤ 0R091	≥ 0R1	≤ 15R	≥ 16R	≤ 220R
252-0	≥ 0R022	≤ 0R033	≥ 0R036	≤ 0R062	≥ 0R068	≤ 0R091	≥ 0R1	≥ 160R	≥ 180R	≤ 470R
253-0	≥ 0R01	≤ 0R02	≥ 0R022	≤ 0R047	≥ 0R051	≤ 0R091	≥ 0R1	≤ 47R	≥ 51R	≤ 750R
254-0	≥ 0R01	≤ 0R027	≥ 0R03	≤ 0R075	≥ 0R082	≤ 0R091	≥ 0R1	≤ 47R	≥ 51R	≤ 750R
255-0	≥ 0R015	≤ 0R024	≥ 0R027	≤ 0R062	≥ 0R068	≤ 0R091	≥ 0R1	≤ 68R	≥ 75R	≤ 1K0
256-0	≥ 0R02	≤ 0R03	≥ 0R033	≤ 0R062	≥ 0R068	≤ 0R091	≥ 0R1	≤ 130R	≥ 150R	≤ 1K5
257-0	≥ 0R027	≤ 0R047	≥ 0R051	≤ 0R082	≥ 0R091	≤ 0R13	≥ 0R15	≤ 150R	≥ 160R	≤ 2K2
258-0	≥ 0R033	≤ 0R062	≥ 0R068	≤ 0R13	≥ 0R15	≤ 0R16	≥ 0R18	≤ 160R	≥ 180R	≤ 2K7
259-0	≥ 0R047	≤ 0R075	≥ 0R082	≤ 0R15	≥ 0R16	≤ 0R24	≥ 0R27	≤ 180R	≥ 200R	≤ 3K9

Type	L max	ØD * max	Ød
CR251-0	9,0	3,0	0,65
CR252-0	9,7	4,0	0,80
CR253-0	14,5	4,5	0,65
CR254-0	12,6	5,5	0,80
CR255-0	15,0	8,5	0,80
CR256-0	17,0	5,5	0,80
CR257-0	18,0	8,5	0,80
CR258-0	22,0	8,5	0,80
CR259-0	27,0	8,5	0,80

\*R ≤ 1R0 Dmax. +1

Packaging:

Type	Packaging	Pieces	Pack.-code	C	s
CR251-0	taped	1000	T	65	5
CR252-0	taped	1000	T	65	5
CR253-0	taped	1000	T	85	10
CR254-0	taped	1000	T	85	10
CR255-0	taped	500	T	85	10
CR256-0	taped	1000	T	85	10
CR257-0	taped	500	T	85	10
CR258-0	taped	500	T	85	10
CR259-0	taped	500	T	85	10

Ordering example: CR259-0    1    T    10R  
 Type    Tolerance    Pack-Code    R- value

Revision 200906

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