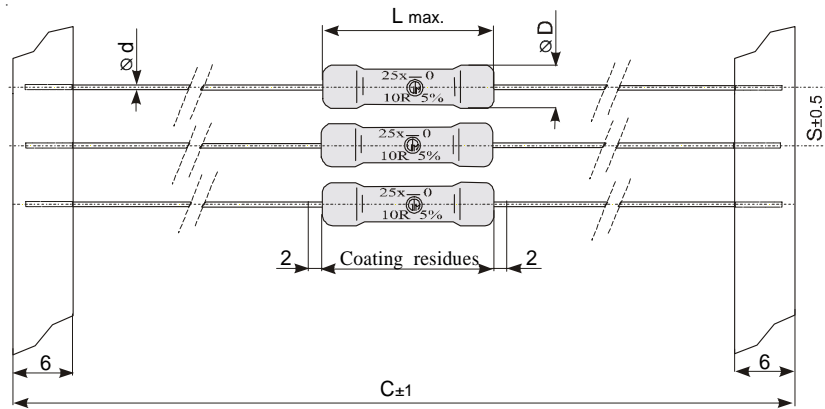


Precision Power Wirewound Resistors,  
ceramic carrier, coated, axial

## Specifications

Type		CR 251-0	CR 253-0	CR 254-0	CR 255-0	CR 256-0	CR 257-0	CR 258-0	CR 259-0
Power rating $P_{40}$ $\vartheta_o$ , $P_{70}$	W	1,1 1,0	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 next page							
Tolerances	%	Rmin. ... Rmax.: $\pm 5$ , $\pm 2$ , $\pm 1$ ; $R \geq 1R$ : $\pm 0,5$							
Temperature coefficient	$10^{-6} \cdot K^{-1}$	0 $\pm$ 20							
max. cont. work. voltage	$V_{RMS}$	$\sqrt{P_{70} \cdot R}$							
Insulation voltage (1min.)	$V_{RMS}$	max 75V							
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	$KW^{-1}$	280	140	112	94	80	65	56	43
Failure rate (Total, $\vartheta_o$ , 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)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 1,0$							
Climatic sequence (IEX 115-1/23)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 1,0$							
Terminal strength	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 0,2$							
Terminal tensile strength	N	50							
Resistance to soldering heat (260 $^{\circ}C$ , 3,5s)	$\left[\frac{\Delta R}{R}\right] \%$	$\pm 0,2$ typ.							
Solderability	s	2,5 Flowtime; solderglobule test, IEC 60068-2-20-T							
Marking		Printed in clear							

Dimensions in mm



Type	Resistange range		Temperature Coefficient (-20°C to 120°C)			
	min	max	CuNi44 0±20 ppm/K		NiCr20AlSi 0±10 ppm/K	
CR251-0	0R1	100R	0R1	<16R	≥ 16R	≤ 100R
CR253-0	0R1	360R	0R1	<51R	≥ 51R	≤ 360R
CR254-0	0R1	360R	0R1	<51R	≥ 51R	≤ 360R
CR255-0	0R1	470R	0R1	<75R	≥ 75R	≤ 470R
CR256-0	0R1	750R	0R1	<150R	≥ 150R	≤ 750R
CR257-0	0R2	1K1	0R2	<160R	≥ 160R	≤ 1K1
CR258-0	0R2	1K3	0R2	<180R	≥ 180R	≤ 1K3
CR259-0	0R3	2K	0R3	<200R	≥ 200R	≤ 2K

Type	L max.	ØD* max.	Ød
CR251-0	9,0	3,0	0,65
CR253-0	14,5	4,0	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
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