



Precision Power Wirewound Resistors, ceramic carrier, coated, axial

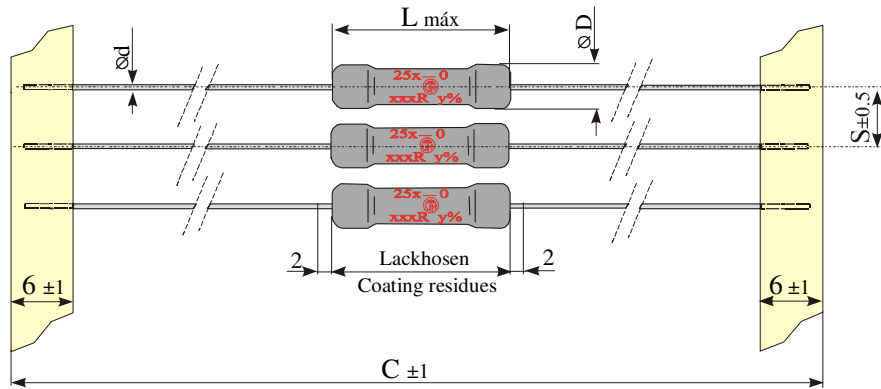
Specifications

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	Ω	See Page 2								
Tolerances	%	Rmin. ...Rmax.: ± 5 , ± 2 , ± 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	Ω	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, ϑ_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								

Revision 200906

VITROHM PORTUGUESA, Lda. – Est. Nacional 249-4, Trajouce – 2765-653 S. Domingos de Rana – PORTUGAL
Tel: + 351 214 457 700 – Fax: 351 214 457 755 – Germany Sales Tel: + 0049 4121 870 103 – e-mail: vitrohm.support@vageo.com – www.vitrohm.com

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 Type Tolerance T Pack-Code 10R R- value

Revision 200906

VITROHM PORTUGUESA, Lda. - Est. Nacional 249-4, Trajouse - 2765-653 S. Domingos de Rana - PORTUGAL
 Tel: + 351 214 457 700 - Fax: 351 214 457 755 - Germany Sales Tel: + 0049 4121 870 103 - e-mail: vitrohm.support@yageo.com - www.vitrohm.com