

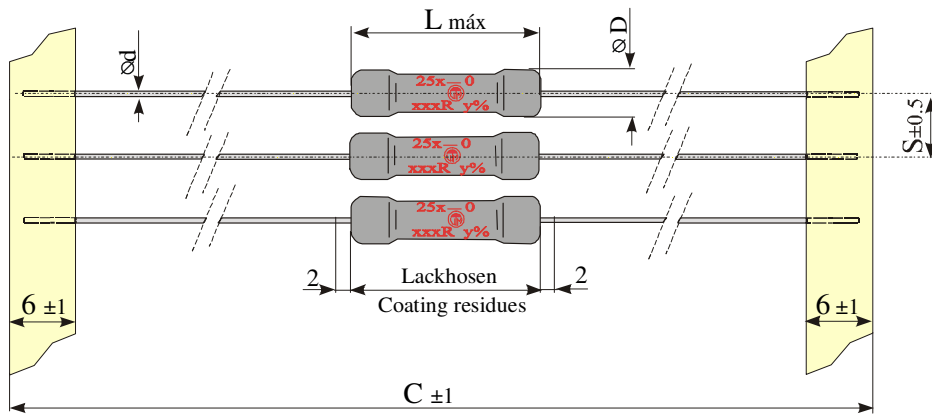


Precision Power Wirewound Resistors, ceramic carrier, coated, axial

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 (IEC 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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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

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

Other Similar products are found below :

[FRN25J330R](#) [FRN50J1R0S](#) [H4100RBYA](#) [H415RBZA](#) [H41K1BYA](#) [H41K5BYA](#) [H41M0BDA](#) [H420R5BCA](#) [H421R5BZA](#) [H4221RBYA](#)
[H424K3BDA](#) [H442K2BDA](#) [H45K62BZA](#) [H4634RBZA](#) [H473R2BZA](#) [H4931KBZA](#) [H8160KFDA](#) [H8274KBZA](#) [H82K0FDA](#) [H82K0FZA](#)
[H87K5DYA](#) [RLR05C1501GPB14](#) [RLR05C6201GS](#) [RLR20C3240FRB14](#) [RLR20C51R0GMB14](#) [RLR32C7R50FMB14](#) [RNC55H4642FPB14](#)
[HR01623J](#) [HR01682J](#) [270-1.69M-RC](#) [LR0204F110R](#) [LR0204F18R](#) [LR0204F20K](#) [LR0204F20R](#) [LR0204F510R](#) [LR1F121R](#) [LR1F133K](#)
[LR1F383R](#) [LR1F3K01](#) [LR1F4K75](#) [LR2F330RJIT](#) [LR2F51R](#) [LR2F910R](#) [ERX-2SZJR20E](#) [SQMR74K7J](#) [FMF-25FTF52-100K](#)
[FRN50J100RS](#) [FRN50J470RS](#) [H4100RBZA](#) [H414R3BZA](#)