

SMD

Precision Power Wirewound Resistor

Ceramic rod, Flame retardant coating



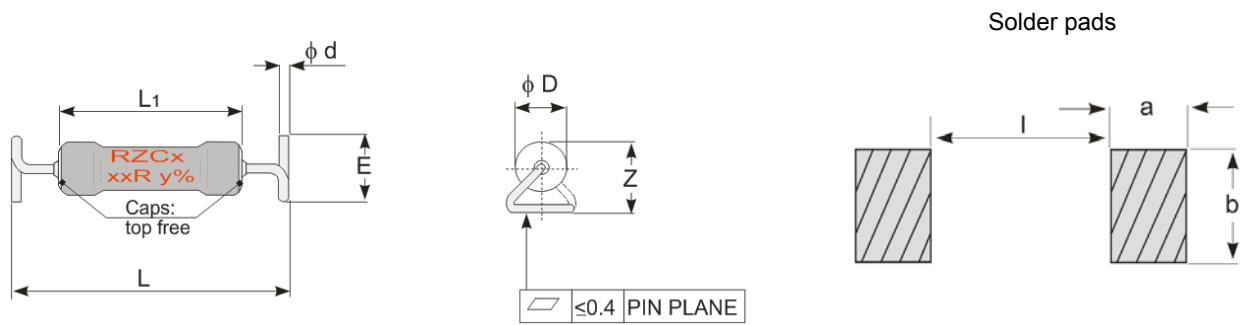
ELECTRICAL SPECIFICATIONS

Type		RZC1	RZC2	RZC3	RZC4	RZC6
Nominal Power rating	P_{40} P_{70}	1,1 1,0	2,0 1,8	2,5 2,3	3,0 2,7	4,0 3,6
Resistance range	[Ω] Min Max	0R01 220R	0R022 470R	0R01 750R	0R01 750R	0R02 1K5
E-Series		Other values upon request E24				
Tolerances	± [%]	0,5(D) [R ≥ 1R], 1(F), 2(G), 5(J)				
Temperature coefficient	[10 ⁻⁶ *K ⁻¹]	*See table below				
Temperature range	[°C]	-55 ... +350				
Thermal resistance	[KW ⁻¹]	280	155	122	104	78
Insulation voltage (1min.) IEC115-1 clause 2.2.17	[V]	max 500				

PERFORMANCE DATA

Max. working voltage <i>IEC115-1 clause 2.2.16</i>	[V] _{RMS}	$\sqrt{P_{70} * R}$
Derating linear <i>IEC115-1 clause 2.2.24</i>	[°C]	70...350 (0W)
Climatic category <i>IEC60068-1</i>		55/200/56
Failure Rate (<i>Total, g₀, max, 60% cont. lev.</i>)	[10 ⁻⁹ h ⁻¹]	appr. 100 depends on value
Endurance (<i>P₇₀ 70[°C], 1000[h]</i>) <i>IEC115-1 clause 4.25</i>	± [%]	3,0
Damp heat, steady state <i>(40[°C], 93[% r.h.], 56[d])</i> <i>IEC115-1 clause 4.24</i>	± [%]	1,0
Climatic sequence <i>IEC115-1 clause 4.23</i>	± [%]	1,0
Terminal strength	± [%]	0,2
Terminal Tensile Strength	[N]	50
Resistance to soldering heat (<i>260°C, 3,5s</i>) <i>IEC115-1 clause 4.12</i>	± [%]	0,2
Solderability <i>IEC 60068-2-20-T</i>	[s]	2,5 Flowtime; solderglobe test
Marking		Printed in clear

DIMENSIONS



Dimensions in [mm]										
Type	Size	L	L ₁ max.	∅ D max	∅ d ±0,02	E	Z max	l	a	b
RZC1	5315	13,4 ±0,5	9,0	3,0	0,65	4,5±0,5	7,0	10	10	10
RZC2	5315		9,7	4,0	0,8					
RZC3	6720	17,0 ±1	14,5	4,5	0,65	5,0±0,5	7,5	14		
RZC4	6720		12,6	5,5	0,8					
RZC6	8424	20,9 ±1	17,0	5,5	0,8		8,0	16		

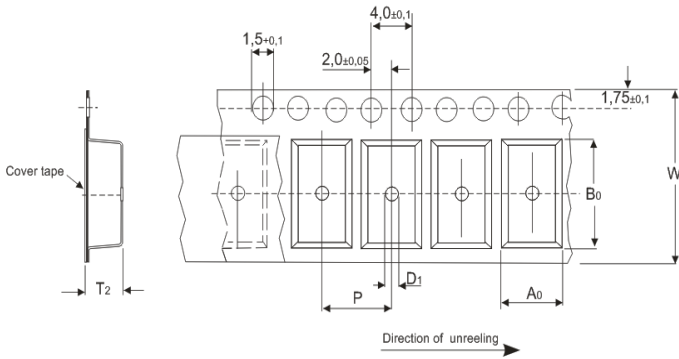
*R ≤ 1R Dmax. +1

TEMPERATURE COEFFICIENT

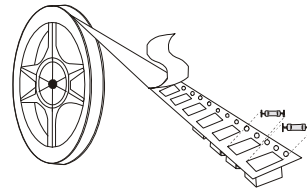
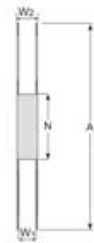
Type	Temperature Coefficient (-20°C to 120°C)									
	500 +400 ppm/K		400 ± 50 ppm/K		appr. +180 ppm/K		0 ± 20 ppm/K		0 ± 10 ppm/K	
RZC1	-----	-----	≥ 0R01	≤ 0R024	≥ 0R027	≤ 0R091	≥ 0R1	≤ 15R	≥ 16R	≤ 220R
RZC2	≥ 0R022	≤ 0R033	≥ 0R036	≤ 0R062	≥ 0R068	≤ 0R091	≥ 0R1	≥ 160R	≥ 180R	≤ 470R
RZC3	≥ 0R01	≤ 0R02	≥ 0R022	≤ 0R047	≥ 0R051	≤ 0R091	≥ 0R1	≤ 47R	≥ 51R	≤ 750R
RZC4	≥ 0R01	≤ 0R027	≥ 0R03	≤ 0R075	≥ 0R082	≤ 0R091	≥ 0R1	≤ 47R	≥ 51R	≤ 750R
RZC6	≥ 0R02	≤ 0R03	≥ 0R033	≤ 0R062	≥ 0R068	≤ 0R091	≥ 0R1	≤ 130R	≥ 150R	≤ 1K5

PACKAGING (dimensions [mm])

The standard packaging for RZC type is blister tape, as showed below



Size	5315	6720	8424
A0	5,0	5,7	6,0
B0	13,7	16,7	21,4
W	24	24	32
D1	2,0	2,0	2,0
P	8	8	12
T2	7,2	7,6	8,1



Size	W ₁	W ₂	N	A
5315	25,4	29,5	90	330
6720				
8424	33,4	37,4	100	380

Size	Packaging	Pieces
5315	13 [inch] Blister tape	1000
6720		
8424	15 [inch] Blister tape	

ORDERING EXAMPLE

RZC4	6720	J	K	-	13	220R
Type	Size	Tolerance	Blister tape reel	TC	Reel diameter	R-Value