SMD

Precision Power Wirewound Resistors
Axial, Ceramic core, Pulse version
Flame retardant coating

RoHS compliant

ELECTRICAL SPECIFICATIONS

Type			RZI1 (UNDER DEVELOPMENT)	RZI2	RZI4
Nominal Power rating	P_{40}	[W]	1,5	2,0	3,0
	P_{70}		1,0	1,8	2,7
Resistance range		[Ω]		0R1…470R	0R1…1K8
				*Other values upon request	
E-Series				E24	
Tolerances		± [%]		0,5(D) [R≥ 1R] ; 1(F) ; 2(G) ; 5(J)	
Temperature coefficient		[10^{-6}*K^{-1}]		120 $^{\pm 50}$	
Temperature range		[°C]		-55 … +350	
Thermal resistance		[KW^{-1}]	280	155	104
Dielectric withstanding voltage *IEC115-1 clause 4.7 (1[min])*		$[V]_{RMS}$		max 500	
Max. working voltage		$[V]_{RMS}$		$\sqrt{P_{70} * R}$	

PERFORMANCE DATA

Derating linear	[°C]	70…350 (0W)
Climatic category		55/200/56
Failure Rate *(Total, ϑ_0, max, 60% cont. lev.)*	[10^{-9} h^{-1}]	appr. 100 depends on value
Endurance *IEC60115-1 clause 4.25* (P_{70}, @ 70[°C], 1000[h])	± [%]	3,0
Damp heat, steady state *IEC115-1clause 4.24* *(40[°C], 93[% r.h.], 56[d])*	± [%]	1,0
Climatic sequence *IEC115-1 clause4.23*	± [%]	1,0
Surge test *IEC61000-4-5*	± [%]	2,0
Terminal strength	± [%]	0,2
Resistance to soldering heat *IEC115-1 clause 4.18* *($260^{\pm 5}$[°C], $3,5^{\pm 1}$[s])*	± [%]	0,2
Solderability *IEC 60068-2-20-T* *($245^{\pm 5}$[°C], $3^{\pm 0.5}$[s])*		Solder bath method (> 95% coverage)
Marking *IEC60062*		Color code ((5th band (green) for pulse version)) (Values<0R1 Printed in clear)

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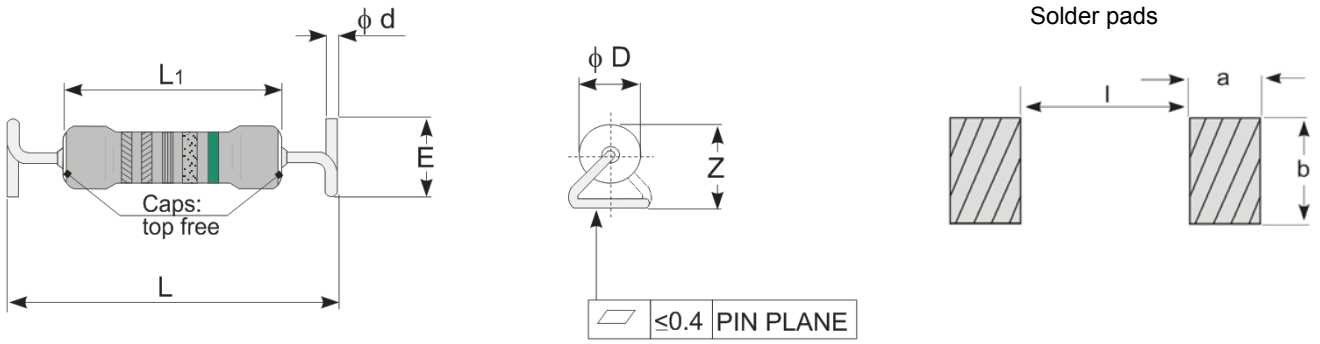
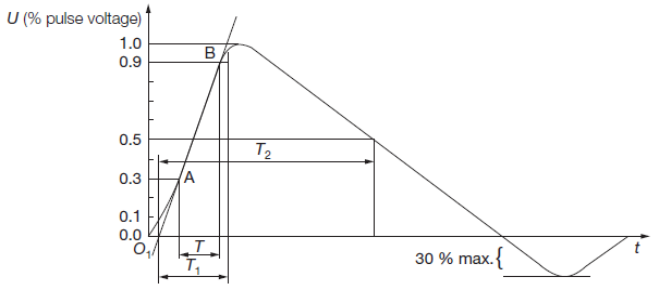
DIMENSIONS [mm]



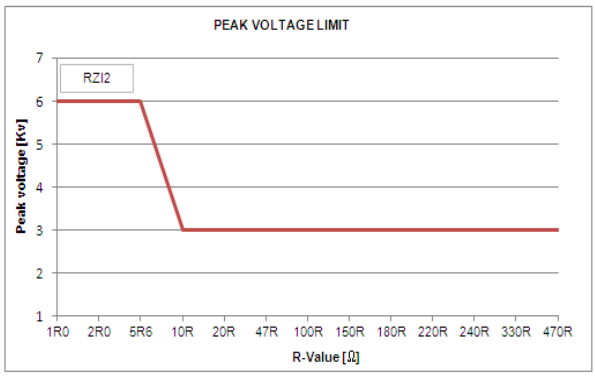
Type	Size	L	L_1 max.	Ø D max	Ø $d^{\pm 0,02}$	E	Z max	l	a	b
RZI1	5315	13,4 ±0,5	9,0	3,0	0,65	4,5±0,5	7,0	10	10	10
RZI2	5315		9,5	4,0	0,8					
RZI4	6720	17,0 ±1	12,6	5,5	0,8	5,0±0,5	7,6	14		

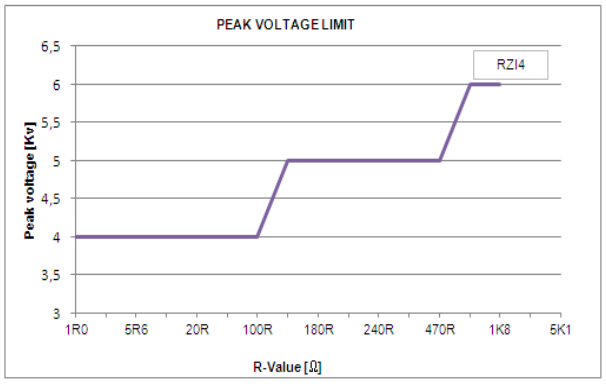
*R ≤ 1R Dmax. +1

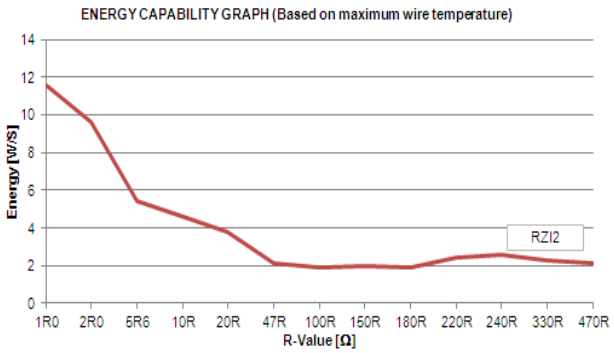
PULSE PERFORMANCE

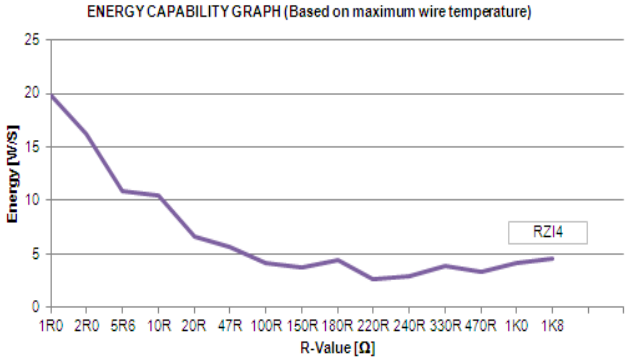


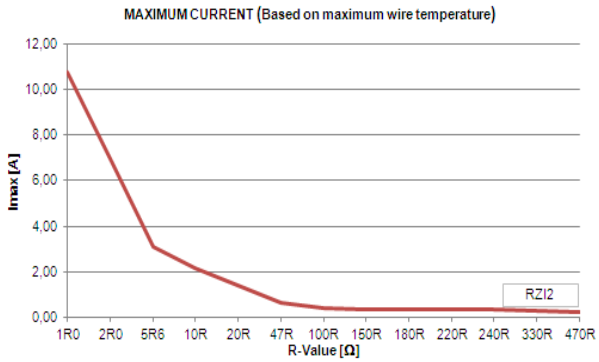
NOTE: The voltage shown in the below table, is the net voltage across the resistor. The generator open voltage will be higher due to the generator's internal impedance (12[Ω]).
Pulse shape – 10 pulses @ 20 [s] interval

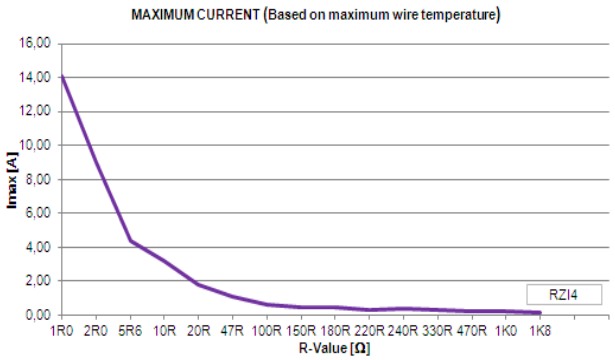


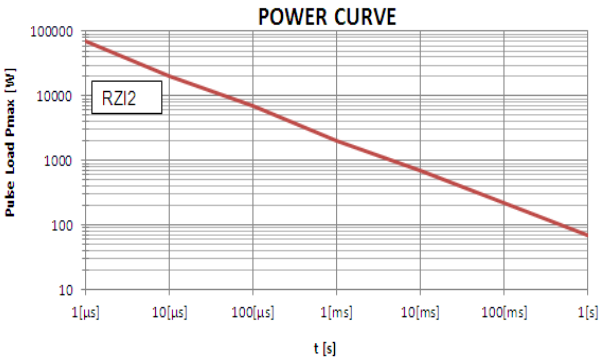


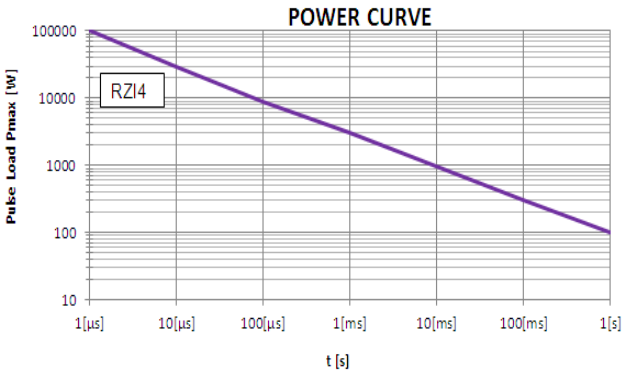






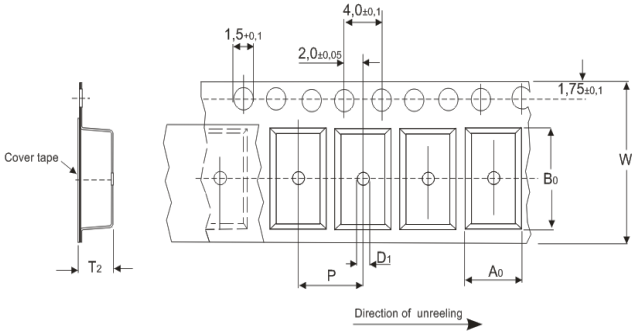




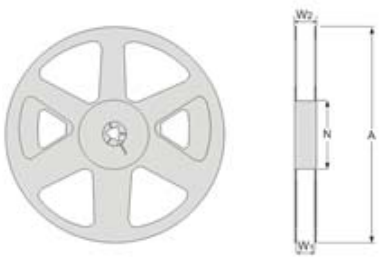


PACKAGING

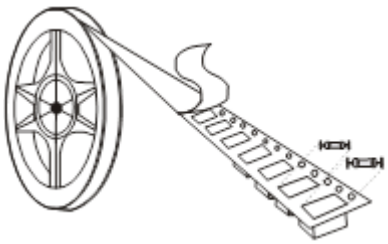
The standard packaging for RZI type is blister tape, dimensions [mm], are showed below



Size	5315	6720
A0	5,0	5,7
B0	13,7	16,7
W	24	24
D1	2,0	2,0
P	8	8
T2	7,2	7,6



Size	W_1	W_2	N	A
5315	25,4	29,5	90	330
6720				



Size	Packaging	Pieces
5315	13[mm] Blister tape	1000
6720		

ORDERING EXAMPLE

RZI4	6720	J	K	-	13	220R
Type	*Size*	*Tolerance*	*Blister tape reel*	*TC*	*Reel diameter*	*R-Value*