



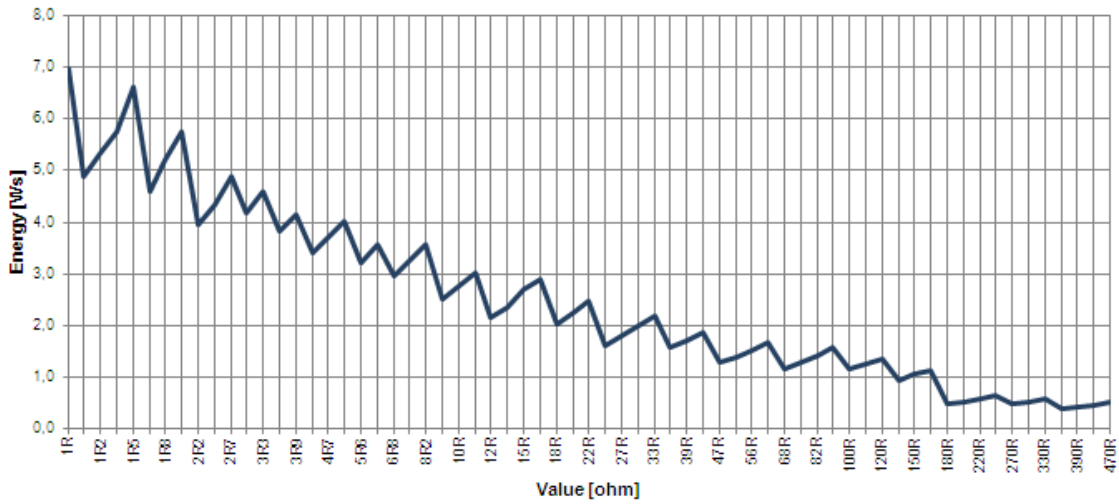
Precision Power Wirewound Resistors, ceramic rod, UL 94 – V0, Flameproof coating PULSE VERSION

Specifications

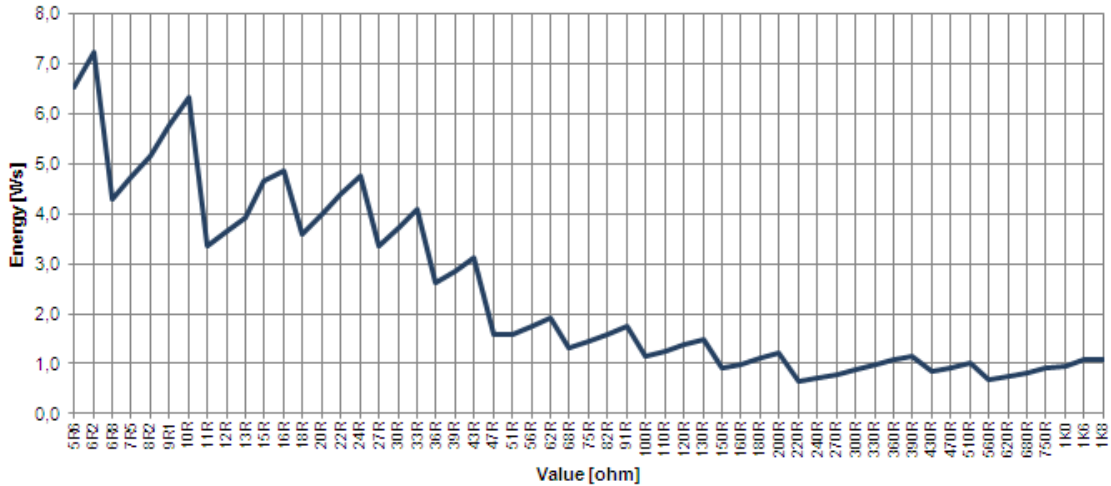
Type		CRP 252-1	CRP 254-1	CRP 257-1
Nominal Power rating P_{40} P_{70}	W	2,0 1,6	3,0 2,5	5,0 4,3
Resistance range	Ω	0R022...470R	0R01 ...750R	0R027 ... 2K2
Tolerances	%	Rmin. ...Rmax.: $\pm 5, \pm 2, \pm 1$; $R \geq 1R$: $\pm 0,5$		
Max. working voltage	V_{RMS}	$\sqrt{P_{70} * R}$		
Insulation voltage (1min.)	V_{RMS}	max 500 [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}	60	70	40
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) IEC 60115-1	$[\Delta R/R]$ %	$\pm 3,0$ average		
Damp heat, steady state (40 $^{\circ}C$, 93% r.h., 56d)	$[\Delta R/R]$ %	$\pm 1,0$		
Climatic sequence IEC 60115-1 / 23	$[\Delta R/R]$ %	$\pm 1,0$		
Pulse (see Pulse Performance graphs) IEC 61000-4-5 / IEC 60115-1	$[\Delta R/R]$ % max.	$\pm 2,0$		
Terminal strength	$[\Delta R/R]$ %	$\pm 0,2$		
Terminal Tensile Strength	N	50		
Resistance to soldering heat (260 $^{\circ}C$, 3,5s)	$[\Delta R/R]$ %	$\pm 0,2$ typ.		
Solderability IEC 60068-2-20-T	s	2,5 Flowtime; solderglobule test		
Marking		DIN-IEC – color, code , 5 bands (5th band (green) for pulse version))		

Ordering example: CRP254-1 5 T 15R
Type Tolerance Pack-Code R- value

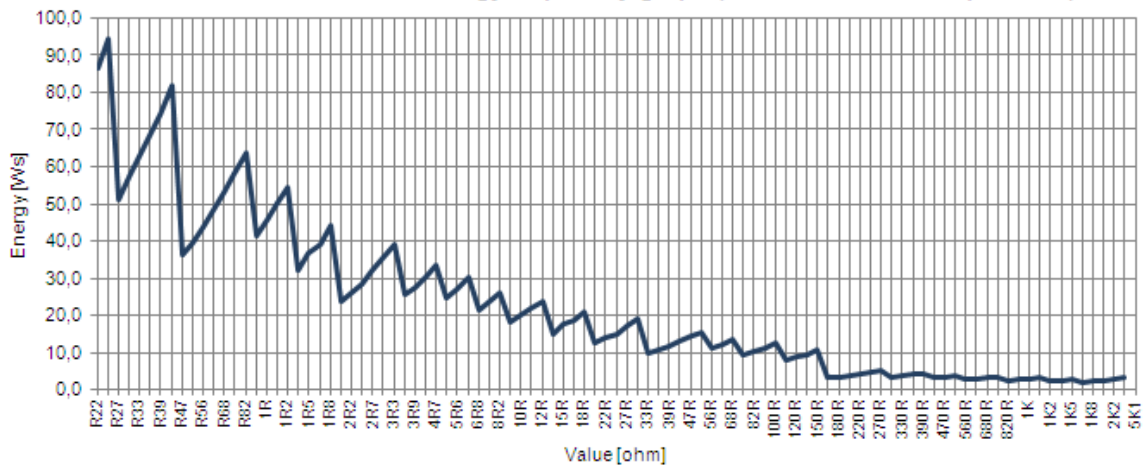
CRP252-1 Energy Capability graph (based on a wire temperature)

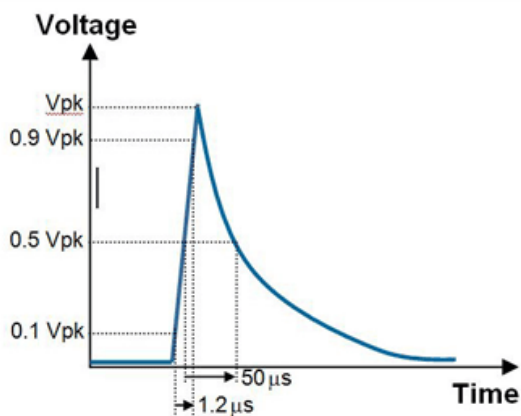


CRP254-1 Energy Capability graph (based on a wire temperature)



CRP 257-1 Energy Capability graph (based on a wire temperature)

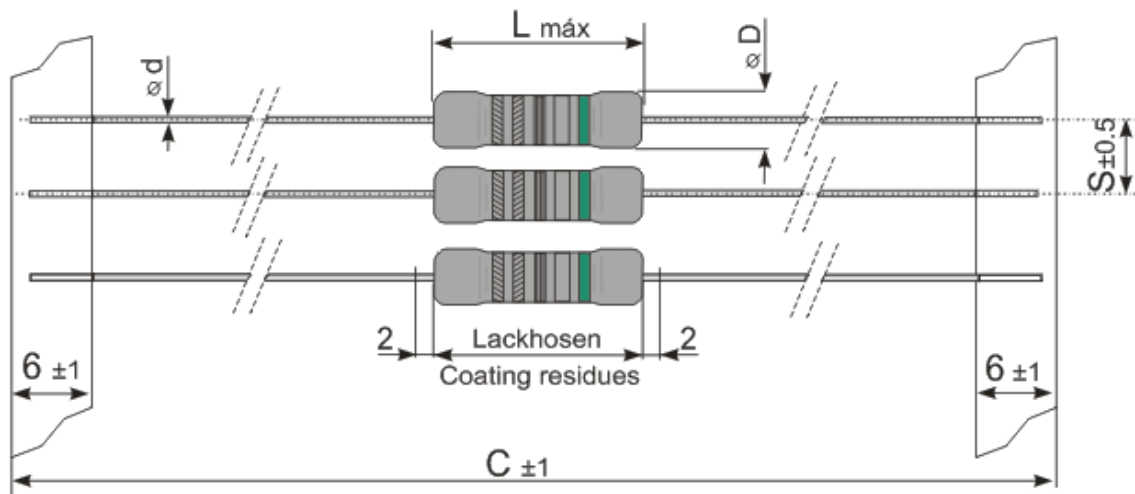




1.2/50μs Peak Voltage Limit				
Type	Voltage [KV]			
	3	4	5	6
CRP252-1	1R ... 470R	-----	-----	-----
CRP254-1	-----	5R6 ... 100R	150R ... 470R	1K ... 1K8
CRP257-1	-----	-----	-----	0R22 ... 5K1

(10 pulses at 10s intervals)
 Note the voltage shown is the nett voltage across the resistor.
 The generator open circuit voltage will be higher due to the generator's internal impedance (12[Ω]).

Dimensions in mm:



Type	L max	Ø D * max	Ø d
CRP252-1	9,7	4,0	0,80
CRP254-1	12,6	5,5	0,80
CRP257-1	18,0	8,5	0,80

*R ≤ 1R0 Dmax. +1

Packaging:

Type	Packaging	Pieces	Pack.-code	C	s
CRP252-1	taped	1000	T	65	5
CRP254-1	taped	1000	T	85	10
CRP257-1	taped	500	T	85	10