

Power Wirewound Resistors,
Flame retardant, safety version

UL Recognized



(UL 1412, fusing and temp. limited resistors, file E 330640)

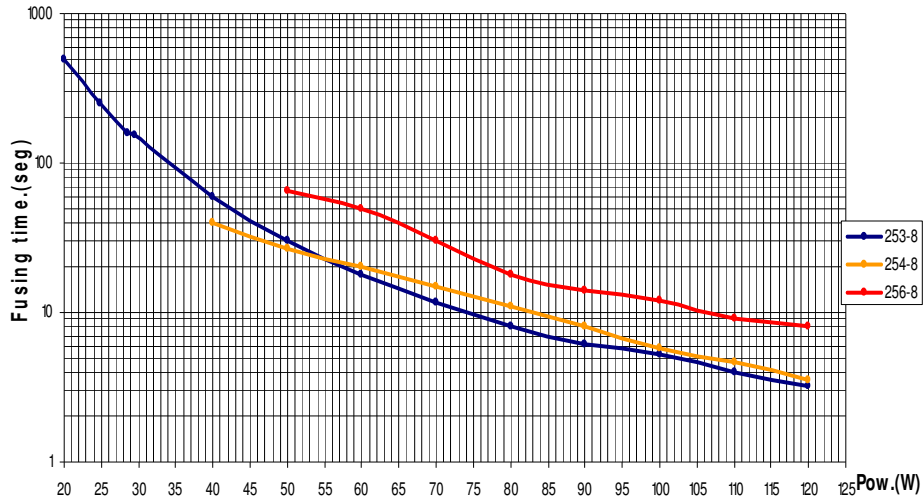


Specifications

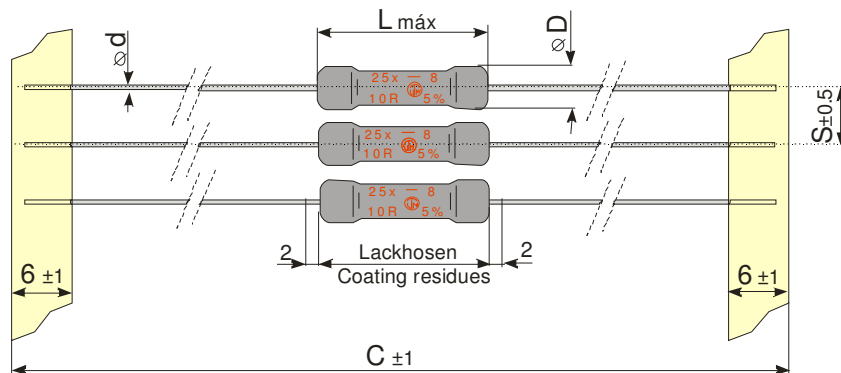
Type		CRF 253-8	CRF 254-8	CRF 256-8
Nominal Power rating P_{40} P_{70}	W	2,2 2,0	3,0 2,5	4,0 3,5
Resistance range	Ω		See Page 2	
E-Series			E24	
Tolerances	%		± 1 , ± 2 , ± 5	
Temperature coefficient	$10^{-6} * K^{-1}$		$120^{\pm 50}$	
Max. working voltage	V_{RMS}		$\sqrt{P_{70} * R}$	
Insulation voltage (1 min.)	V_{RMS}		max 75 V	
Insulation resistance	Ω		not insulated	
Derating linear	$^{\circ}C$		70...350 (0W)	
Climatic category			55/350/56	
Temperature range	$^{\circ}C$		-55 ... 350	
Thermal resistance	KW^{-1}	85	65	65
Failure Rate (Total, ϑ_0 , max, 60% cont. lev.)	$10^{-9} h^{-1}$		appr. 10 depends on value	
Endurance (P_{70} , $70^{\circ}C$, 1000h)	$[\Delta R/R]$ %		$\pm 5,0$ average	
Damp heat, steady state ($40^{\circ}C$, 93% r.h., 56d)	$[\Delta R/R]$ %		$\pm 5,0$	
Climatic sequence	$[\Delta R/R]$ %		$\pm 2,0$	
Terminal strength	$[\Delta R/R]$ %		$\pm 0,2$	
Terminal Tensile Strength	N		50	
Resistance to soldering heat ($260^{\circ}C$, 10s)	$[\Delta R/R]$ %		$\pm 0,5$	
Solderability	s	2,5 Flowtime; solderglobule test, IEC 60068-2-20		
Marking		Printed in clear		

Type	UL – Voltage rating	Resistance range
CRF253-8	230 V	10R ... 330R
CRF254-8	230 V	10R ... 330R
CRF256-8	230 V	10R ... 330R
CRF253-8	120 V	10R ... 90R
CRF254-8	120 V	10R ... 90R
CRF256-8	120 V	10R ... 90R

Note: Resistors are designed to fuse safely when mains-voltage is applied.
In accordance with UL-testing fusing-characteristics are as shown below



Dimensions in mm :



Type	L max	Ø D * max	Ø d
CRF253-8	14,5	4,5	0,65
CRF254-8	12,5	6,0	0,80
CRF256-8	17,0	6,0	0,80

*R < 10R Dmax. +1

Packaging:

Type	Packaging	Pieces	Pack.-code	C	s
CRF253-8	Taped/Ammopack	1000	T	85	10
CRF254-8	Taped/Ammopack	1000	T	85	10
CRF256-8	Taped/Ammopack	1000	T	85	10

Ordering example: CRF254-8 5 T 15R
Type Tolerance Pack-Code R- value