

## Metal Film Resistors, Fusible Type



### FEATURES

- Fusible resistor for constant current designed for overload protection
- High positive temperature coefficient
- Flame retardent coating
- Defined switch-off behaviour

### STANDARD ELECTRICAL SPECIFICATIONS

MODEL	DIN SIZE	POWER RATING P <sub>70°C</sub> W	TEMPERATURE COEFFICIENT ppm/K	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
NKS2	0207	0.4	see diagram	5 10, 20	1R0 - 20R R10 - 20R	12 - 24 12
NKS3	0309	0.5	see diagram	5 10, 20	1R0 - 20R R10 - 20R	12 - 24 12
NKS4	0414	0.7	see diagram	5 10, 20	1R0 - 20R R10 - 20R	12 - 24 12
NKS5	0617	1.0	see diagram	5 10, 20	1R0 - 20R R10 - 20R	12 - 24 12
NKS8	0922	1.5	see diagram	5 10, 20	1R0 - 20R R10 - 20R	12 - 24 12

- Further values on request
- Coating: red-brown
- Marking: additional 5<sup>th</sup> band, black
- Rated Voltage  $\sqrt{P \times R}$

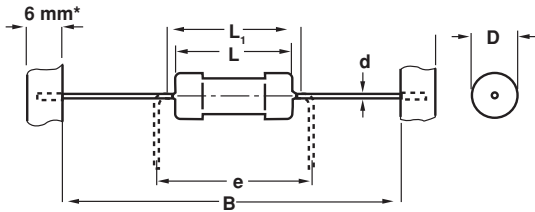
### TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	NKS2	NKS3	NKS4	NKS5	NKS8
Rated Dissipation at 70°C	W	0.4	0.5	0.7	1.0	1.5
Minimum Overload to Fuse	W	1.5	2.0	2.8	5	8
Time to Fuse (max)	s	30	40	60	110	200
Voltage Coefficient	1 / V	< 10 <sup>-7</sup>				
Thermal Resistance	K/W	≤ 220	≤ 180	≤ 130	≤ 80	≤ 60
Thermal Time Constant τ	s	8	11	20	35	70
Category Temperature Range	°C	- 55 / + 155				
Failure Rate	10 <sup>-9</sup> /h	< 30				
Weight	g	0.2	0.36	0.7	1,5	3,3

### ORDERING INFORMATION

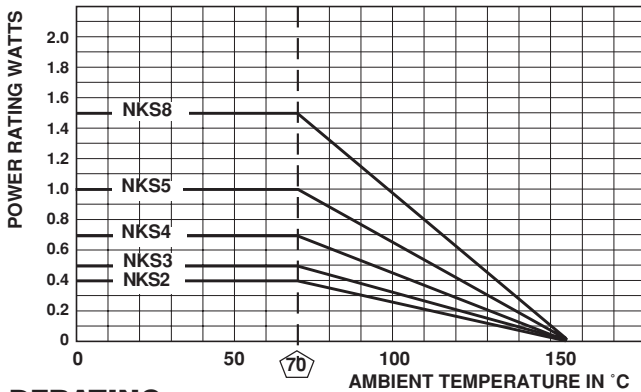
<b>NKS2</b> MODEL	- TC ppm/K	<b>10R</b> RESISTANCE VALUE Ω	<b>10%</b> TOLERANCE ± %	<b>A5</b> PACKAGING A5 Ammopack -5000 pcs
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**DIMENSIONS**

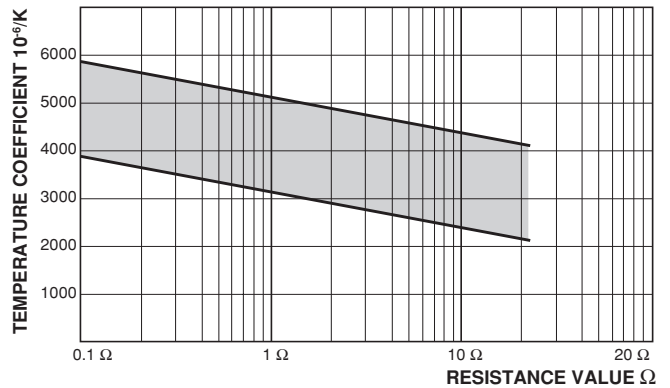


- Taping in acc. with IEC60286-1
- D and L measured in acc. with IEC60294
- d according to IEC60301
- <sup>1)</sup> Also available in 26mm tape spacing
- \* 9mm for NKS5, NKS8

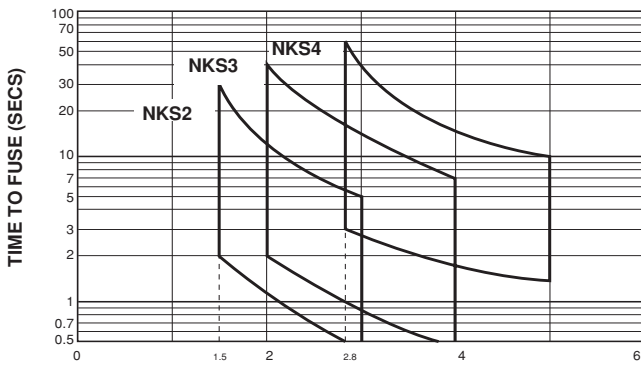
MODEL	DIMENSIONS [in millimeters]					
	D	L	L <sub>1max</sub>	B	d	e
NKS2	2.5 -0.5	6.0 -0.5	7.0	53 ±1 <sup>1)</sup>	0.6	7.5
NKS3	3.2 -0.5	8.5 -1.0	9.5	53 ±1 <sup>1)</sup>	0.6	10.0
NKS4	4.1 -0.5	12.0 -1.5	14.0	73 ±1 <sup>1)</sup>	0.8	15
NKS5	6.0 -0.5	16.5 -1.5	18.5	77 ±1	0.8	17.5
NKS8	9.0 -0.5	20.5 -1.5	22.5	77 ±1	0.8	22.5



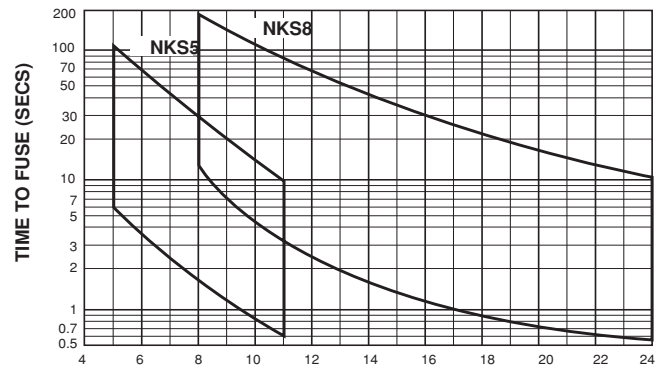
**DERATING**



**TEMPERATURE COEFFICIENT**



OPENING POWER IN WATTS CALCULATED WITH RATED RESISTANCE



OPENING POWER IN WATTS CALCULATED WITH RATED RESISTANCE

**FUSING PERFORMANCE**

<b>PACKAGING</b>						
MODEL	REEL			BOX		
	PIECES / REEL	CODE	MIN. ORDER QTY PACKAGING UNITS	PIECES / BOX	CODE	MIN. ORDER QTY PACKAGING UNITS
NKS2 / NKS3	5000	R5	1	5000 2000	A5 A2	1 2
NKS4	2500	RE	1	1000	A1	1
NKS5	1500	RP	1	1000	A1	1
NKS8	1000	R1	1	1000	A1	1