

Metal Film Resistors, Fusible Type



FEATURES

- Fusible resistor for constant current designed for overload protection
- Lead (Pb)-free solder contacts
- Pure tin plating provides compatibility with lead (Pb)-free and lead containing soldering processes
- Compatible with "Restriction of the use of Hazardous Substances" (RoHS) directive 2002/95/EC (issue 2004)
- High positive temperature coefficient (refer to graph)
- Flame retardant coating
- Definded switch-off behaviour



STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	DIN SIZE	POWER RATING $P_{70^{\circ}\text{C}}$ W	TEMPERATURE COEFFICIENT ppm/K	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
NKS2	0207	0.4	see diagram	± 5 $\pm 10, \pm 20$	1R0 - 20R R10 - 20R	12 - 24 12
NKS4	0414	0.7	see diagram	± 5 $\pm 10, \pm 20$	1R0 - 20R R10 - 20R	12 - 24 12

Notes

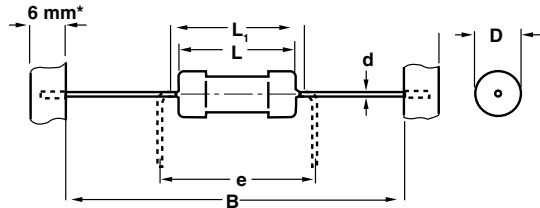
- Further values on request
- Rated voltage $\sqrt{P \times R}$
- Coating: red-brown
- Marking: additional 5th band, black

PART NUMBER AND PRODUCT DESCRIPTION																	
PART NUMBER: NKS2207B01009K2500																	
N	K	S	2	2	0	7	B	0	1	0	0	9	K	2	5	0	0
MODEL/SIZE NKS2207 NKS4414	SPECIAL CHARACTER B = Fusible		TCR 0 = neutral see diagram		VALUE 3 digit value 1 digit multiplier MULTIPLIER 7 = $\times 10^{-3}$ 8 = $\times 10^{-2}$ 9 = $\times 10^{-1}$ 0 = $\times 10^0$		TOLERANCE J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$		PACKAGING 22 = A2 25 = A5 41 = A1 D5 = R5 DE = RE GP = RP		SPECIAL up to 2 digits 00 = standard						
PRODUCT DESCRIPTION: NKS2 10R 10% A5																	
NKS2 MODEL NKS2 NKS4		10R RESISTANCE VALUE 1R0 = 1 Ω 10R = 10 Ω		10% TOLERANCE $\pm 5\%$ $\pm 10\%$ $\pm 20\%$		A5 PACKAGING ¹⁾ R5 RE RP A5 A2 A1											
¹⁾ Please refer to table PACKAGING, page 126.																	

Note

- The PART NUMBER shown above is to facilitate the unified part numbering system for ordering products.

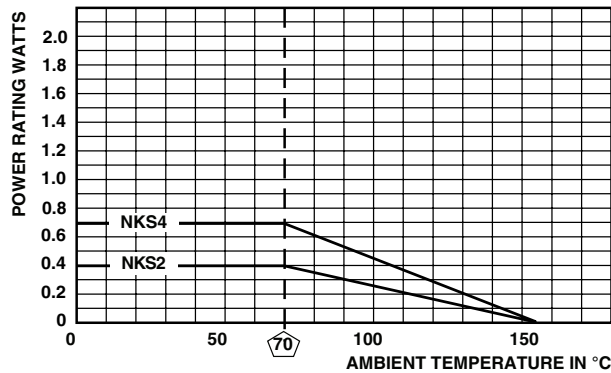
DIMENSIONS



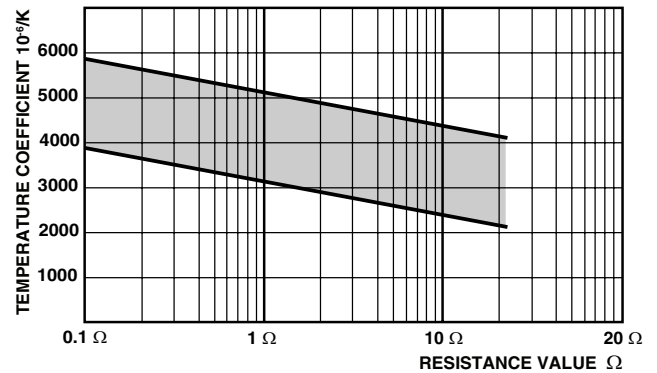
- Taping in acc. with IEC60286-1
- D and L measured in acc. with IEC60294
- d according to IEC60301
- 1) Also available in 26 mm tape spacing

MODEL	DIMENSIONS [in millimeters]					
	D	L	L _{1 max}	B	d	e
NKS2	2.5 - 0.5	6.0 - 0.5	7.0	53 ± 1 ¹⁾	0.6	7.5
NKS4	4.1 - 0.5	12.0 - 1.5	14.0	73 ± 1 ¹⁾	0.8	15

TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	NKS2	NKS4
Rated Dissipation at 70 °C	W	0.4	0.7
Minimum Overload to Fuse	W	1.5	2.8
Time to Fuse (max)	s	30	60
Voltage Coefficient	1/V	< 10 ⁻⁷	
Thermal Resistance	K/W	≤ 220	≤ 130
Thermal Time Constant τ	s	8	20
Category Temperature Range	°C	- 55 to + 155	
Failure Rate	10 ⁻⁹ /h	< 30	
Weight	g	0.2	0.7

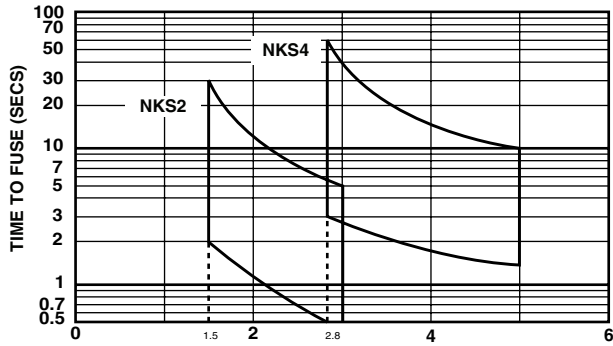


DERATING



TEMPERATURE COEFFICIENT

FUSING PERFORMANCE



OPENING POWER IN WATTS CALCULATED WITH RATED RESISTANCE

PACKAGING						
MODEL	REEL			BOX		
	PIECES/REEL	CODE	MIN. ORDER QTY PACKAGING UNITS	PIECES/BOX	CODE	MIN. ORDER QTY PACKAGING UNITS
NKS2	5000	R5	1	2000 5000	A2 A5	2 1
NKS4	2500	RE	1	1000	A1	1



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