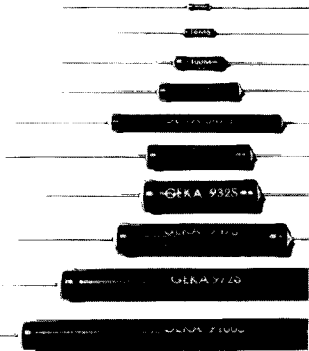


HTS

Data sheet $\frac{1}{3.723}$ E
03795

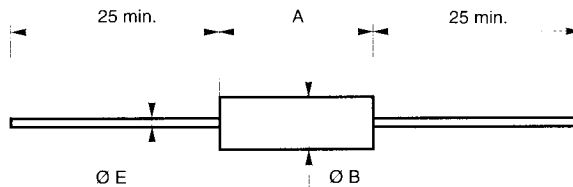
high ohmic values, high voltage resistors – thick film technology –



- CORE : High purity ceramic
- COATING : Epoxy
- TERMINATION : Standard lead material is solder coated copper
- CLIMATIC CATEGORY : $-55^{\circ}\text{C} / +155^{\circ}\text{C} / 56$ days
- STABILITY : 1 %

Table 1

HTS Style	58	63	68	523	547	729	932	947	972	9100
Dim. A	7 ±0,2	8,5 ±0,5	14 ±1	23 ±2	47 ±2	29 ±2	32±2	47 ±2	72±2	100 ±2
Ø B	1,8 ±0,2	2,5 ±0,2	4 ±0,3	5 ±0,3	5 ±0,3	7 ±0,5	9 ±0,5			
Ø E ±0,05	0,6			0,8						
Weight in g.	0,24	0,29	0,67	1,23	2,22	2,66	5,27	7,18	11	14,5



Dimensions in mm

FEATURES

Table 2

SERIES AND STYLES	HTS 58	HTS 63	HTS 68	HTS 523	HTS 547	HTS 729	HTS 932	HTS 947	HTS 972	HTS 9100
POWER RATING AT +70°C	0,25 W	0,5 W	1 W	1 W	1,5 W	2 W	2,5 W	3 W	4 W	5 W
OHMIC RANGE IN RELATION TO	± 0,5 %	1 kΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ	1 kΩ 100 MΩ
	± 1 %	100 MΩ	1 kΩ 250 MΩ	1 kΩ 500 MΩ	1 kΩ 500 MΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ	1 kΩ 1 GΩ
• TEMPERATURE COEFFICIENT ±100 ppm/°C	± 2 %	1 kΩ	1 kΩ	1 kΩ	1 kΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ	1 kΩ 10 GΩ
• TOLERANCE	± 5 % - ±10 %	200 MΩ	500 MΩ	2,5 GΩ	5 GΩ	1 kΩ 50 GΩ	1 kΩ 15 GΩ	1 kΩ 30 GΩ	1 kΩ 50 GΩ	1 kΩ 100 GΩ
LIMITING ELEMENT VOLTAGE	0,5 kV	1 kV	2 kV	5 kV	15 kV	10 kV	15 kV	20 kV	30 kV	50 kV
CRITICAL RESISTANCE	1 MΩ	2 MΩ	4 MΩ	25 MΩ	150 MΩ	50 MΩ	90 MΩ	133,3MΩ	225 MΩ	500 MΩ

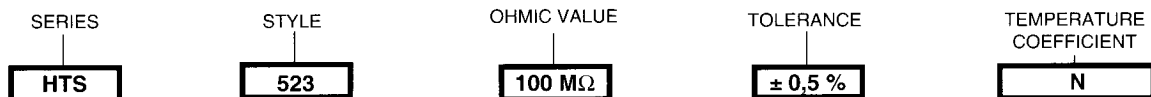
MARKING

GEKA trade-mark, series, style, nominal resistance (in Ω), tolerance (in %), letter N for TCR ±100 ppm/°C, manufacturing date. Because of lack of space, small styles are marked as ohmic value (in Ω), tolerance (in %) and letter N.

SPECIAL FEATURES

Temperature coefficient resistance: ± 50 ppm/°C (M code)
Special matching in tolerance : 0,25 %
Special tracking in T.C.R.: 25 ppm/°C
Please consult SFERNICE.

ORDERING PROCEDURE



N standard : ± 100 ppm/°C
M on request : ± 50 ppm/°C



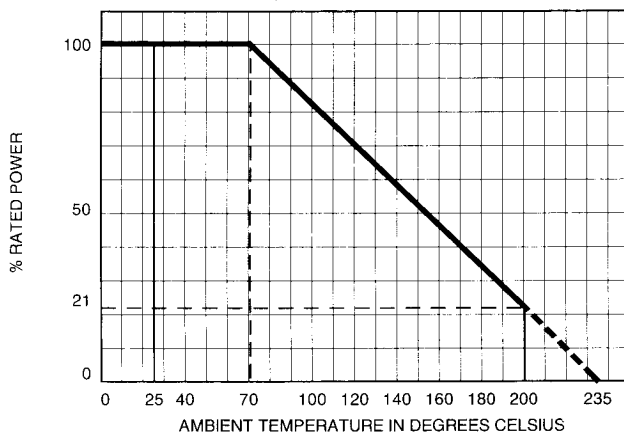
PERFORMANCES

Table 3

NF C 83210 - CECC 40201		REQUIREMENTS	TYPICAL VALUES AND DRIFTS
TESTS	CONDITIONS	NF C 83210	
SHORT TIME OVERLOAD	10 Pn during 5 s or 40 V/mn	≧ 1% +0,05 Ω	0,2% or 0,05 Ω
THERMAL SHOCKS	load at Pr followed by cold temp. exposure 15 mn at -55°C	-	0,2% or 0,05 Ω
CLIMATIC SEQUENCE	10 cycles	≧ 3% +0,1 Ω	0,3% or 0,05 Ω
LOAD LIFE	90'/30' cycle 1000 h at Pr at 25°C	≧ 3% +0,1 Ω	1% or 0,05 Ω
DAMP HEAT HUMIDITY (Steady state)	56 days with low load	3% +0,1 Ω	0,3% or 0,05 Ω
LOAD LIFE AT MAX. TEMPERATURE OF THE CATEGORY	200°C 21% of Pn	3% ±0,1 Ω	-
CLIMATIC SEQUENCE	-55°C +200°C severity 1-5 cycles	3% or 0,05 Ω	0,3% or 0,05 Ω

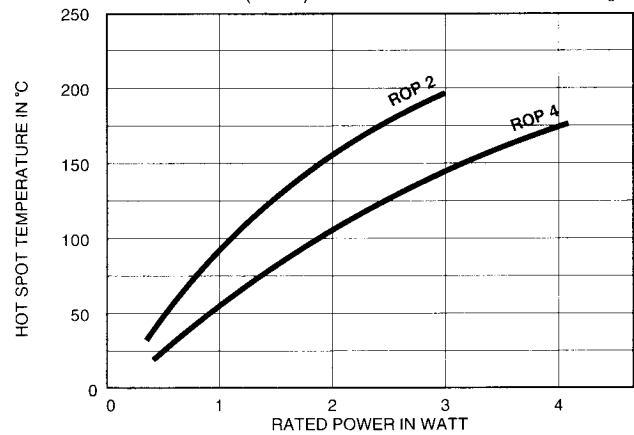
POWER RATING CHART (NF C)

Fig. 1



TEMPERATURE RISE (NF C)

Fig. 2



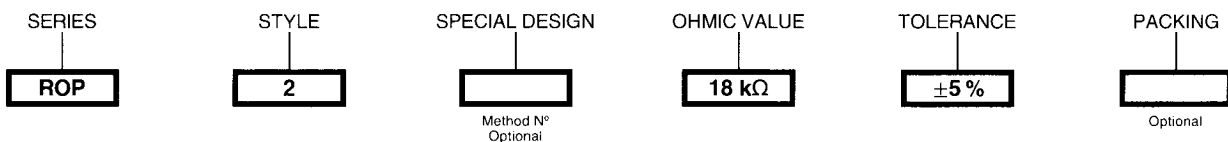
OVERLOADS

Heavy overloads can be carried out with short pulses < 10 ms. Particular applications should be submitted to SFERNICE specifying peak voltage, cycle and environmental conditions.

PACKING

Standard taping is available, the space between leads being 10 mm.

ORDERING PROCEDURE



3
Fixed resistors