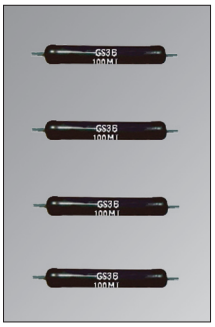
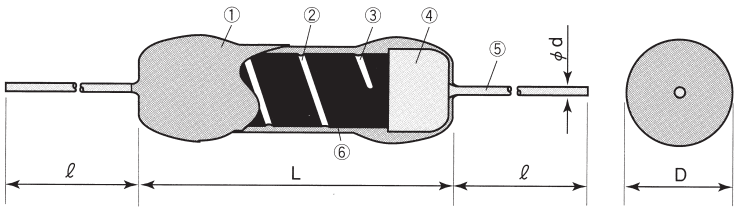
METAL GLAZE

HIGH VOLTAGE
HIGH R-VALUES
GS





STRUCTURE

1 Insulation overcoating
2 Trimming line
3 Ceramic core
4 Electrode cap
5 Lead wire
6 Resistive film

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
GS	Dark Brown	Alpha Numeric (Type, R-value and tolerance)

All these products have Pb-free terminations and meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

GS	1/4	L	C	T52	A	106	J
PRODUCT CODE	POWER RATING Unit: Watt 1/4… 12	T.C.R. D: ±100ppm/K L: ±200ppm/K	TERMINATION SURFACE MATERIAL C: SnCu	TAPING & FORMING Taping only for GS1/4 and GS1/2 *Please see "PACKAGING"	PACKAGING A: Ammo	NOMINAL RESISTANCE G, J, K: 3 digits D, F: 4 digits	RESISTANCE TOLERANCE D, F, G, J, K

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

*Custom forming for all parts and custom taping for GS1/4 and GS1/2 are available on request.

FEATURES

- Suitable for high voltage and high impedance applications
- Excellent in anti-surge characteristics
- High stability
- Miniature size
- Wide resistance range (500 kΩ ... 10 GΩ)
- Small standard TCR's: L (±200ppm/K) or D (±100ppm/K)
- Taping is available for GS1/4 and GS1/2
- Ideal for use in copy machines, LBP's or as charge/discharge resistor in power supply circuits
- Can be used as high voltage dividing resistor
- Rated ambient temperature: +25°C
- Operating temperature range: -55°C... +125°C

DIMENSIONS (mm)

TYPE	L	ø D	ø d (nominal)	l
GS 1/4	6.3 ± 1.0	2.3 ± 0.5	0.65	38±3
GS 1/2	9.5 ± 1.0	3.5 ± 0.6	0.8	
GS 1	15 ± 1.5	4.5 ± 1.0		
GS 2	24 ± 1.5	7.9 ± 1.0	1.0	
GS 3	52 ± 2			
GS 5	76 ± 2			
GS 7	97 ± 3			
GS 10	117 ± 3			
GS 12	137 ± 3			

RATING

TYPE	T.C.R. (ppm/K)	POWER RATING at 25°C	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	IMPULSE WITH-STANDING VOLTAGE*	RESISTANCE RANGE AND TOLERANCE E 24 & 25, 50 x 10^n				
						D(±0.5%)	F(±1%)	G(±2%)	J(±5%)	K(±10%)
GS 1/4	L (± 200) D (± 100)	0.25 W	0.5 kV	1 kV	1.25 kV	0.5MΩ ... 20MΩ	0.5 MΩ … 100 MΩ	0.5MΩ ... 100MΩ	0.5MΩ ... 100MΩ	0.5MΩ ... 100MΩ
GS 1/2	L (± 200) D (± 100)	0.5 W	1 kV	2 kV	2.5 kV	0.5MΩ ...50MΩ		0.5MΩ ... 500MΩ 0.5MΩ ... 200MΩ	0.5MΩ ... 500MΩ 0.5MΩ... 200 MΩ	0.5MΩ... 500MΩ 0.5MΩ... 200MΩ
GS 1	L (± 200) D (± 100)	1 W	3 kV	4.5 kV	6 kV			0.5MΩ ... 1GΩ 0.5MΩ ... 500MΩ	0.5MΩ ... 5GΩ 0.5MΩ ... 500MΩ	0.5MΩ ... 5GΩ 0.5MΩ... 500MΩ
GS 2	L (± 200) D (± 100)	2 W	5 kV	7.5 kV	10 kV			0.5MΩ ... 1GΩ 0.5MΩ ... 500MΩ	0.5MΩ ... 5GΩ 0.5MΩ ... 500MΩ	0.5MΩ ... 5GΩ 0.5MΩ... 500MΩ
GS 3	L (± 200) D (± 100)	3 W	15 kV	20 kV	30 kV			0.5MΩ ... 1GΩ 0.5MΩ ... 500MΩ	0.5MΩ ... 10GΩ 0.5MΩ ... 500MΩ	0.5MΩ ... 10GΩ 0.5MΩ... 500MΩ
GS 5	L (± 200) D (± 100)	5 W	20 kV	30 kV	40 kV			0.5MΩ ... 1GΩ 0.5MΩ ... 500MΩ	0.5MΩ ... 10GΩ 0.5MΩ ... 500MΩ	0.5MΩ.. 10GΩ 0.5MΩ... 500MΩ
GS 7	L (± 200) D (± 100)	7 W	30 kV	40 kV	50 kV			0.5MΩ ... 1GΩ 1MΩ ... 500MΩ	0.5MΩ ... 10GΩ 1MΩ ... 500MΩ	0.5MΩ.. 10GΩ 1MΩ... 500MΩ
GS 10	L (± 200) D (± 100)	10 W	35 kV	50 kV	60 kV			0.5MΩ ... 1GΩ 1MΩ ... 500MΩ	0.5MΩ... 10GΩ 1MΩ ... 500MΩ	0.5MΩ.. 10GΩ 1MΩ... 500MΩ
GS 12	L (± 200) D (± 100)	12 W	40 kV	60 kV	70 kV			0.5MΩ ... 1GΩ 1MΩ ... 500MΩ	0.5MΩ ... 10GΩ 1MΩ ... 500MΩ	0.5MΩ ... 10GΩ 1MΩ... 500MΩ

* Impulse withstanding voltage under standard waveform (1.2 / 50µs) specified to IEC-60060

Rated voltage = $\sqrt{\text{Power rating x resistance value}}$ or max. working voltage, whichever is lower.

Please contact KOA for special precautions before you order and use this series.