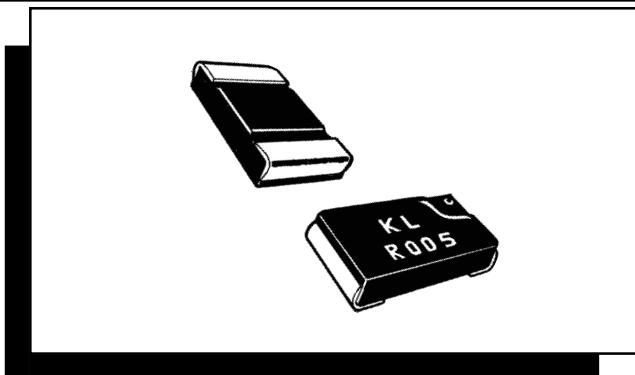


# MEGGITT CGS

HIGH VOLTAGE RESISTORS  
HIGH VALUE RESISTORS  
HIGH POWER RESISTORS  
ALUMINIUM CLAD RESISTORS  
CURRENT SENSE RESISTORS

## SMD Low Ohmic - Current Sense Resistors TYPE KL SERIES



Meggitt CGS are pleased to offer this unique High Power, metal chip resistor for current sensing positions. It has a special metal resistive element and suitable barrier layers underneath the solder to prolong terminal life. Following the developments by semiconductor manufacturers in the production of a range of IC's for battery charge management and low voltage power supplies, the KL Series satisfies the demand for a low ohmic shunt resistor to act as a current sensor. It has particular applications in the automotive industry for sensing in EMU's.

### MEGGITT CGS KEY FEATURES

- LOW COST FOR VOLUME APPLICATIONS
- UP TO 2 WATTS AT 70°C
- SUPPLIED ON TAPE
- IDEAL FOR CURRENT DETECTION
- WIDE VALUE RANGE R005 TO R10 POSSIBLE
- FULLY AUTOMATED MANUFACTURE

## ELECTRICAL

Resistance Value Range:

Stock Values:

Resistance Value Grid:

Resistance Tolerance:

Power Rating:

Voltage Rating:

Operating Temperature:

Inductance:

T.C.R.

Insulation Resistance:

1 Watt

2 Watts

R005 - R10

R01, R015, R018, R022, R033, R047

E24

±5%, ±1%

1 Watt at 70°C (zero at 180°C)

2 Watts at 70°C (zero at 180°C)

Power x Resistance

-55°C to +180°C

&lt; 5 Nanohenries

R<sub>≤</sub> R013 ±180ppm/°C R<sub>≤</sub>, R015 ±100ppm/°C

&lt;10,000 Meg Ohms

## MECHANICAL

Body Construction:

Fully Welded Element

Terminations:

60/40 Tinned Copper

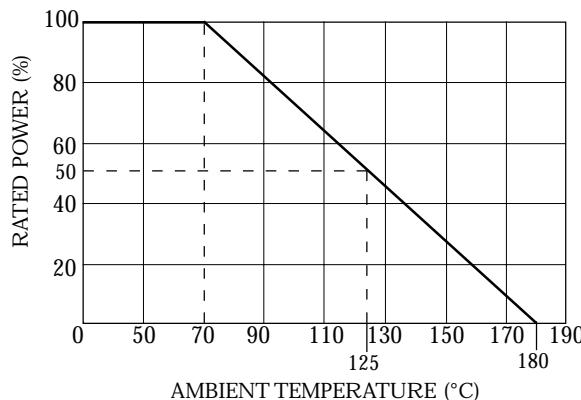
Coating:

Epoxy

## POWER RATING CURVE

For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve.

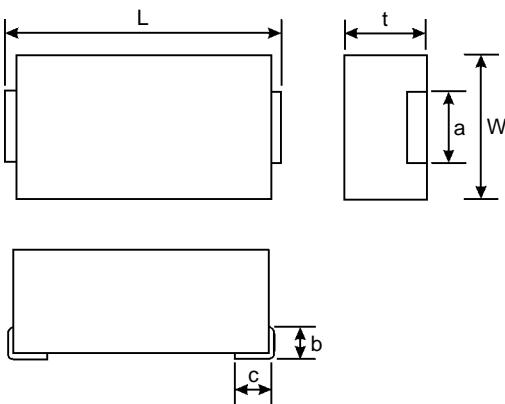
| Type | Power Rating |
|------|--------------|
| KL3A | 1.0 Watts    |
| KL4A | 2.0 Watts    |



## DIMENSIONS

| Part           | KL3A | KL4A |
|----------------|------|------|
| <b>L ± 0.3</b> | 6.3  | 11.5 |
| <b>W ± 0.2</b> | 3.1  | 7.0  |
| <b>t ± 0.2</b> | 1.9  | 2.5  |
| <b>a ± 0.2</b> | 2.4  | 5.0  |
| <b>b ± 0.2</b> | 1.2  | 1.7  |
| <b>c ± 0.3</b> | 1.2  | 2.6  |

All Dimensions are  
Nominal and in mm.  
Do Not Scale.



## HOW TO ORDER

| KL                 | 3A                          | R10  | F          | TDG   |
|--------------------|-----------------------------|--|------------|---|
| COMMON PART        | POWER RATING                | RESISTANCE VALUE   | TOLERANCE  | PACKAGING   |
| KL - Standard Part | 3A - 1 Watt<br>4A - 2 Watts | 0.01 ohm<br>(10 mille ohms)<br>0.1 ohm<br>(100 mille ohms) | R01<br>R10 | F - ± 1%<br>J - ± 5%<br>TDG - Taped<br>2000 on Reel |



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