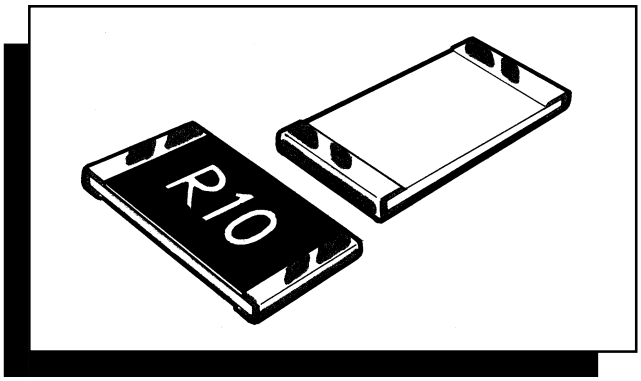
MEGGITT CGS

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

SMD Low Ohmic - Current Sense Resistors

TYPE RL73 SERIES



Meggitt CGS are pleased to offer this unique High Power, thick film chip resistor for current sensing positions. It has a special metal glaze resistive element and a nickel barrier layer 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 RL73 Series satisfies the demand for a low ohmic shunt resistor to act as a current sensor. We can offer smaller sizes and tighter tolerances as "specials" where the demand justifies this.

MEGGITT CGS KEY FEATURES

- **UP TO 1 WATT AT 70°C**
- **VALUES DOWN TO R10**
- **5 CHIP SIZES**
- **IDEAL FOR CURRENT DETECTION**
- **VALUE MARKED ON RESISTOR**
- **ATTRACTIVELY PRICED**
- **LAB KITS AVAILABLE ON REQUEST**
- **SIZES 25:12 (STANDARD) TO 06:03 (SPECIAL)**
- **25:12 SIZE STOCKED AT RS COMPONENTS**

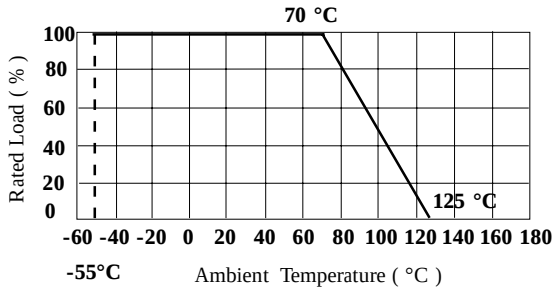
MEGGITT ELECTRONIC COMPONENTS

SALES ACTION DESK
TEL: (01793 611666)
FAX: (01793 511513)

TYPE	T.C.R.	POWER RATING @ 70°C	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	RESISTANCE RANGE		TAPING & QTY PER 7" REEL	
					* F(±1%) E96, E24	G(±2%) J(±5%) E24	TD	TE
RL73H2A	± 100	0.125 W	1.11 V	2.79 V	R 20 - 10R	——	5000	——
RL73K2A	± 200				——	R 10 - 10R		
RL73H2B	± 100	0.25 W	1.58 V	3.95 V	R 20 - 10R	——	5000	——
RL73K2B	± 200				——	R 10 - 10R		
RL73H2E	± 100	0.5 W	2.23 V	5.59 V	R 20 - 10R	——	5000	——
RL73K2E	± 200				——	R 10 - 10R		
RL73H2H	± 100	0.75 W	2.73 V	6.84 V	R 20 - 10R	——	——	4000
RL73K2H	± 200				——	R 10 - 10R		
RL73H3A	± 100	1.0 W	3.16 V	7.90 V	R 20 - 10R	——	——	4000
*RL73K3A	± 200				——	R 10 - 10R		

POWER DERATING CURVE

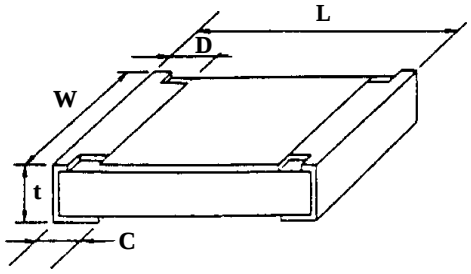
For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with this curve.



*RECOMMENDED CIRCUIT BOARD DESIGN

If this device is expected to run at full continuous power then action to improve the cooling should be taken. This can be a metal substrate, copper pad left under the chip or an opening in the PCB.

DIMENSIONS

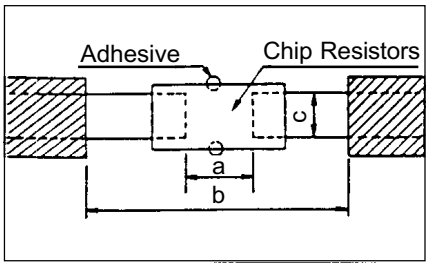


Part No.	DIMEMSIONS				
	L ± 0.2	W	C	D $\pm^{0.2}_{0.1}$	t ± 0.1
RL73K 2A	2.0	1.25±0.1	0.4±0.2	0.3	0.5
RL73K 2B	3.2	1.6±0.2	0.5±0.3	0.4	0.6
RL73K 2E		2.6±0.2			
RL73K 2H	5.0	2.5±0.2			
RL73K 3A	6.3	3.1±0.2			

All Dimensions are Nominal and in mm Do Not Scale

HANDLING RECOMMENDATIONS

When flow soldering - the land width must be smaller than the chip resistor width to properly control the solder application.
Generally, the land width can be chip resistor width (W) x 0.7 to 0.8.
When reflow soldering - solder application amount can be adjusted.
Thus the land width can be set to W x 1.0 to 1.3.



HOW TO ORDER

RL73K	3A	R10	J	TE
COMMON PART	RATED POWER	RESISTOR VALUE	TOLERANCE	PACKAGING
RL73K - Standard RL73H - 100ppm/°C	See Above E.g. 3A - 1W	0.1 ohm (100 mille ohm) R10 1 ohm (1000 mille ohm) 1R0 10 ohm (10000 milli ohm) 10R	J ± 5% G ± 2% *F ± 1% *See Above Table	TG - Cut Tape Lengths TDF - 1000 (paper) TDG - 2000 (paper) TE - 4000 (plastic) TD - 5000 (paper)

Meggitt Electronic Components Ltd. Ohmic House, Westmead Industrial Estate, Swindon, Wilts. SN5 7US
Telephone: (01793)487301 (Admin.) (01793) 611666 (Sales) Telex:449112 Citec G Fax:(01793) 610217 or 511513