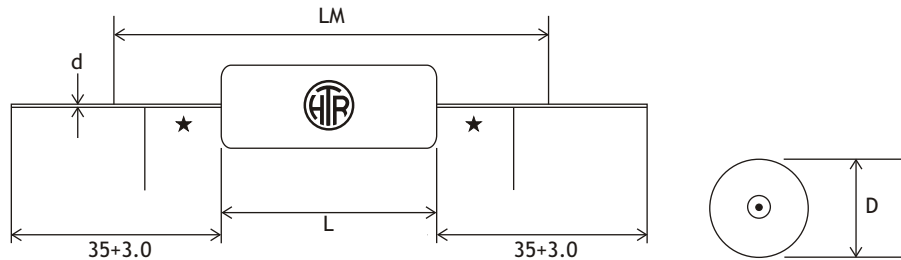


RL SERIES

LOW OHM / LOW INDUCTANCE
Power Ceramic Encased Resistors
Industrial Applications



PHYSICAL CONFIGURATION



★ 6mm reduced solderability in this area

HTR TYPE	POWER RATING at 25°C (Ambient)	DIMENSIONS (mm)				RESISTANCE RANGE		TYPICAL WT. PER PC (gms)
		L ±1	LM ±1	D ±0.5	d ±0.05	min	max	
RL0.5	0.5W	8	30	3	0.6/0.8	R004	R055	0.25
RL1	1W	10	30	3	0.6/0.8	R005	R10	0.3
RL2	2W	10	30	4	0.8	R005	R10	0.4
RL3	3W	14	40	5	0.8	R0045	R22	1
RL4	4W	18	40	5	0.8	R0045	R36	1.5
RL5	5W	22	45	8	1	R0025	R39	2.8
RL10	10W	42	60	9	1	R004	R80	6.1

Resistance values must be checked using 4½ digit micro-ohm meter with four wire system and insulated clips. The resistance value must be checked at dimension LM as given in the table above.



ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS / DATA

Test	Performance Requirements
Resistance tolerance	± 10% [K]; ± 5% [J]; ± 3%[H]; ± 2% [G]; ± 1% [F]
Rated ambient temperature	at 25°C full power dissipation derated linearly to zero at 275°C
Insulation resistance	> 1000 Mega Ohms
Short time overload	5 times rated wattage for 5 sec.
Di-electric withstanding voltage	500 Volts r.m.s.
Ambient operating temperature range	-40°C to +155°C
Temperature co-efficient of resistance	±60ppm/°C to + 550ppm/°C depending on resistance value and power rating. (measured from -55°C to 125°C referenced to + 25°C)

TYPICAL APPLICATION

RL Series is an innovative method of providing low inductance resistors in a cylindrical ceramic body and is increasingly replacing the moulded version.

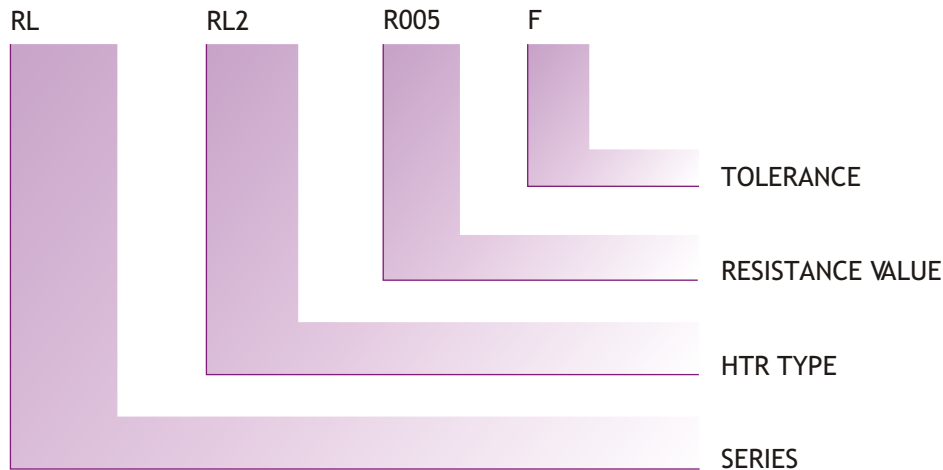
The resistive element consists of a flat metal band which is spot welded to the copper terminals before encapsulation.

The resistors are finding increasing use in industrial applications where pulse rating and ability to absorb high inrush current are required.

Another important application is Current Sensing in applications which include switching and linear power supplies, instruments & power amplifiers.

For the effective utilisation of these resistors, please refer to “Application / design notes for current sense resistors”

ORDERING INFORMATION



Note : Type RL 0.5 and RL-1 can be supplied with lead diameter of 0.6mm instead of 0.8mm. Please specify at the time of placing the order.

Taping :Types RL 0.5, 1, 2, 3 and 5 can be supplied in taped form. Please refer to [tape/ammo pack specifications](#). [Tape/Reel](#) also possible, please contact factory.