

Type HL Series



Type 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 beneath 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 HL 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.

Key Features

- Low Cost for Volume Applications
- Up to 1 Watt at 70°C
- Supplied on Tape
- Ideal for Current Detection
- Wide Value Range R005 to R10 Possible
- Fully Automated Manufacture
- 25:12 Package

PRODUCT
PLANNED FOR
EOL

LTB 18/08/2023

Type HL Series

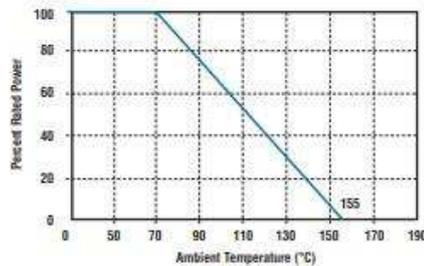
Characteristics - Electrical

Resistance Value Range:	R005 - R10
Resistance Tolerance:	±1%, ±5%
Power Rating:	1 watt at 70°C derating to zero at 155°C
Operating Temperature:	-55°C to +155°C
T.C.R.:	±50ppm, ±100ppm/°C ≥R01 ~ ±200ppm/°C <R01

Characteristics - Mechanical

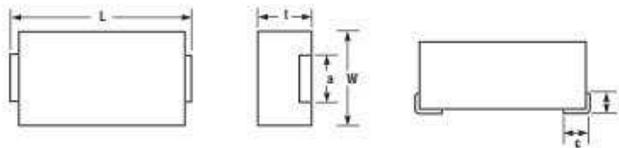
Fully Welded Element
Copper (Solder Plated) Terminations
Heat Resistant Resin Moulding
Weight: 0.067 grams typical

Derating Curve



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

Dimensions



Standard Reel Size: 25:12 1000 per 7" Reel

L ±0.5	W ±0.3	t ±0.3	a ±0.3	b ±0.3	c ±0.3
6.2	3.1	1.0	2.5	0.8	1.2

How to Order

HL	3A	H	R015	F	TDF
Common Part	Size	T.C.R.	Resistance Value	Tolerance	Packaging
HL - Standard part	3A - 25:12	G - 50ppm/°C H - 100ppm/°C T - 200ppm/°C	0.005 ohm (5 milli ohm) R005 0.015 ohm (15 milli ohms) R015 0.047 ohm (47 milli ohms) R047	F - ±1% J - ±5%	TDF - 1000 per Reel

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