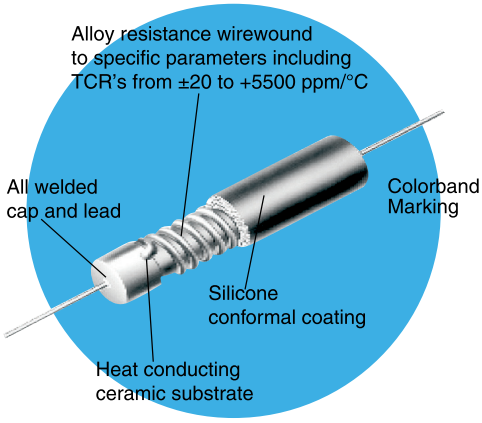
Resistors

Low Cost Semi-Precision Power Wirewound Resistor

LAS Series

- 1 and 3 watts
- 0.1 ohm to 18K ohms
- Color band identification
- ±5%, ±3%, ±1%, ±.5% tolerance
- Resistance wire TCR ±20 ppm/°C
- RoHS-compliant version available



All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

Electrical Data

IRC Type	Power Rating 275°C Max. Hot Spot		Commercial Range (ohms)		Non-Inductive Range (ohms)		Available Resistance (ohms)	
	125°C	25°C	Min.	Max.	Min.	Max.	0.5%, 1%	3%, 5%
LAS-1	1	2	0.1	7.5K	0.1	3.8K	1 - 7.5K	0.1 - 7.5K
LAS-3	2	3	0.1	18K	0.2	7.5K	1 - 18K	0.1 - 18K

Environmental Data

Test Condition (@ 25°C)	Max ΔR
Load Life 1000 hours	1.0%
Moisture Resistance	1.0%
Temperature Cycle	0.5%
Short Time Overload	0.5%
Low Temperature Operation	0.5%
Solder Heat	0.25%
Shock	0.5%
Vibration	0.5%

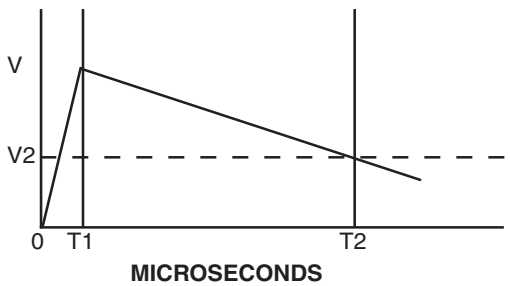
LAS-3 Carbon Comp Replacement (contact factory)

The LAS-3 is a three watt conformal coated precision wirewound resistor. The resistance wire is welded to the end caps and wound on alumina rod for good thermal conductivity. In circuit applications that utilize two watt carbon comp resistors the LAS-3 is an idead effective replacement. The LAS-3 5.6 ohm can be specifically designed to withstand 22 joules of energy delivered by a 1000 volt 10 x 1000 usec wave shape pulse.

Special LAS-3 5.6 ohm to 100 ohm will meet Telecom GR-1089 lightning requirements.

- V = 1000 volts
- T1 = 10 usec rise
- T2 = 1000 usec to V2
- 10 ohm output impedance

LIGHTNING SURGE



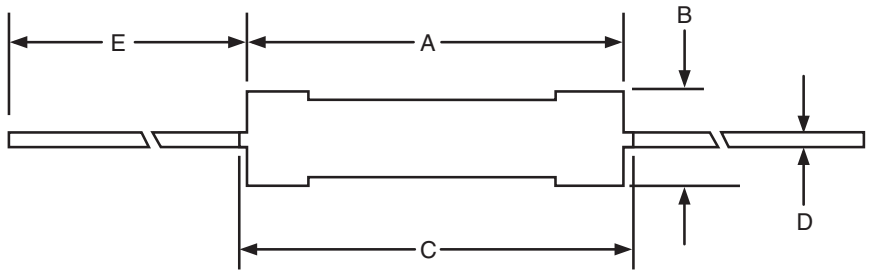
General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.
All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

Bi technologies IRC Welwyn

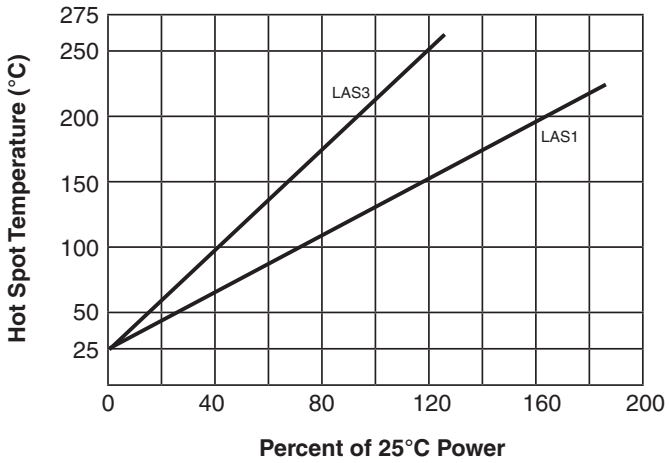
www.ttelectronicsresistors.com

Physical Data

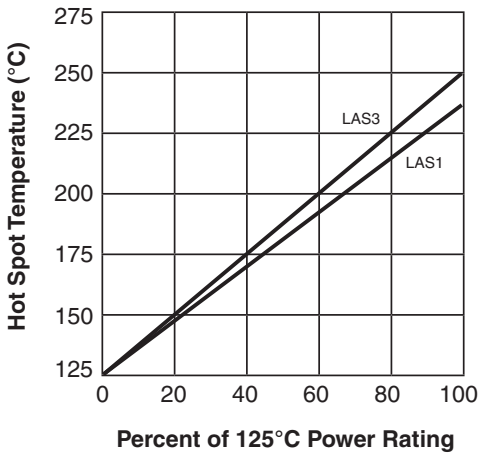


Dimensions (Inches (mm))					
IRC Type	**A ±0.032**	**B (max)**	**C (max)**	**D (Lead Diameter)**	**E (Lead length Min)**
LAS-1	0.348 (8.84)	0.110 (2.80)	0.407 (10.34)	0.020 (0.53)	1.475 (37.5)
LAS-3	0.491 (12.47)	0.149 (3.80)	0.550 (13.99)	0.032 (0.81)	1.35 (34.3)

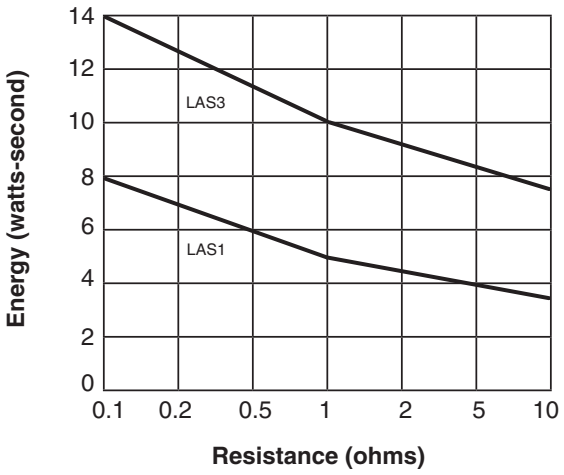
Hot Spot Temperature @ 25°C



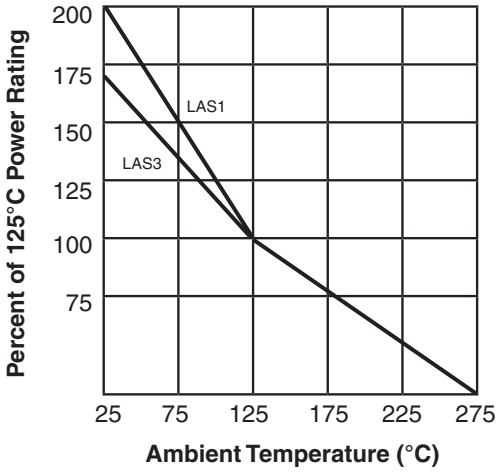
Hot Spot Temperature @ 125°C



Pulse-Handling Capability @ 25°C



Power Derating Curve



Ordering Data