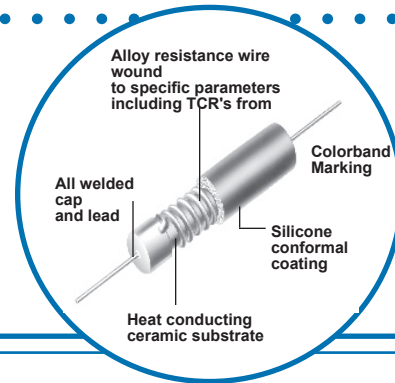


# LAS SERIES



## LOW COST SEMI-PRECISION POWER WIREWOUND RESISTOR

- 1 and 3 watts
- $\pm 5\%$ ,  $\pm 3\%$ ,  $\pm 1\%$ ,  $\pm .5\%$  tolerance
- 0.1 ohm to 18K ohms
- Resistance wire TCR  $\pm 20$  ppm/ $^{\circ}\text{C}$
- RoHS-compliant version available
- Color band identification



### SPECIFICATIONS:

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

### LAS DIMENSIONS (Inches and (mm)):

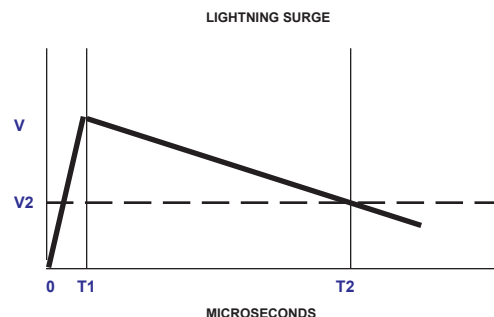
IRC Type	A $\pm 0.032$	B (max)	C (max)	D (Lead Diameter)	E (Lead Length Min)
LAS-1	0.348 (8.84)	0.110 (2.80)	0.407 (10.34)	0.020 (0.53)	1.475 (37.5)
LAS-3	0.491 (12.47)	0.149 (3.80)	0.550 (13.99)	0.032 (0.81)	1.35 (34.3)

### 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 ideal effective replacement. The LAS-3 5.6 ohm can be specifically designed to withstand 22 joules of energy delivered by a 1000 volt 10x1000 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



#### General Note

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

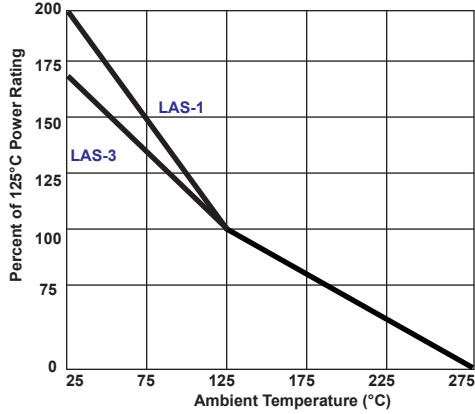
#### WIREWOUND AND FILM TECHNOLOGIES DIVISION

736 Greenway Road • Boone, North Carolina 28607-1860 • Tel: 828-264-8861 • Fax: 828-264-8866 • www.ircct.com

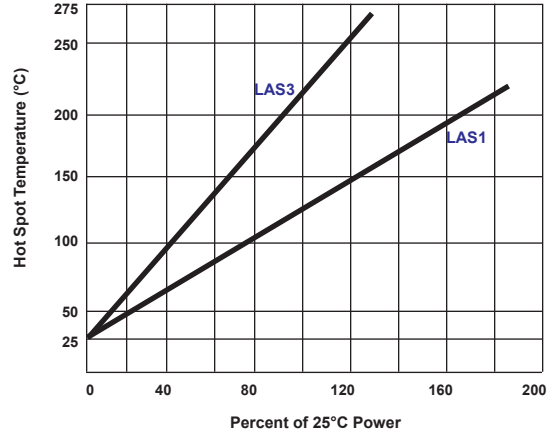


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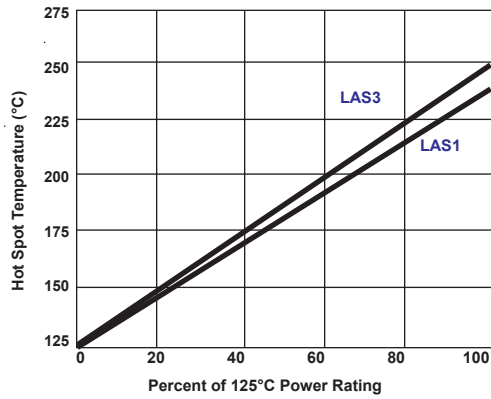
**POWER DERATING:**



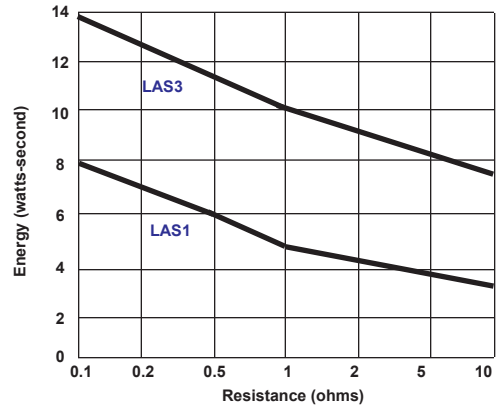
**HOT SPOT TEMPERATURE @ 25°C:**



**HOT SPOT TEMPERATURE @ 125°C:**



**PULSE-HANDLING CAPABILITY @ 25°C:**



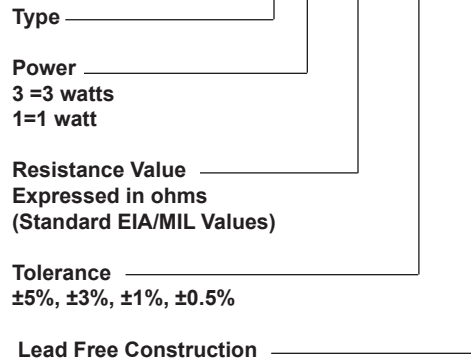
**HOW TO ORDER:**

Sample Part No.:

**ENVIRONMENTAL TESTING AT 25°C:**

TEST CONDITION	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 27R0 5% LF**



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