



# THICK FILM RESISTORS

LPS 300, LPS 600, LPS 800



## LPS 300, LPS 600, LPS 800

High-Power Thick Film Resistors

### FEATURES

- High-power dissipation: 300 W, 600 W, and 800 W at 85 °C
- Small size: 57 mm x 60 mm
- Non inductive: < 0.1  $\mu$ H
- Wide resistance range: from 0.3  $\Omega$  to 900 k $\Omega$ , E24 series
- High-dielectric strength: up to 12 kV RMS
- Low weight: 83 g

### APPLICATIONS

- Wind turbines
- Inverters
- Converters
- Snubbers
- Discharge resistors
- Power supplies in trains and medical equipment

Datasheet is available on our web site at [www.vishay.com](http://www.vishay.com)  
for LPS300 - <http://www.vishay.com/doc?50052>  
for LPS600 - <http://www.vishay.com/doc?50053>  
for LPS800 - <http://www.vishay.com/doc?50054>

## Power Resistor for Mounting onto a Heatsink Thick Film Technology



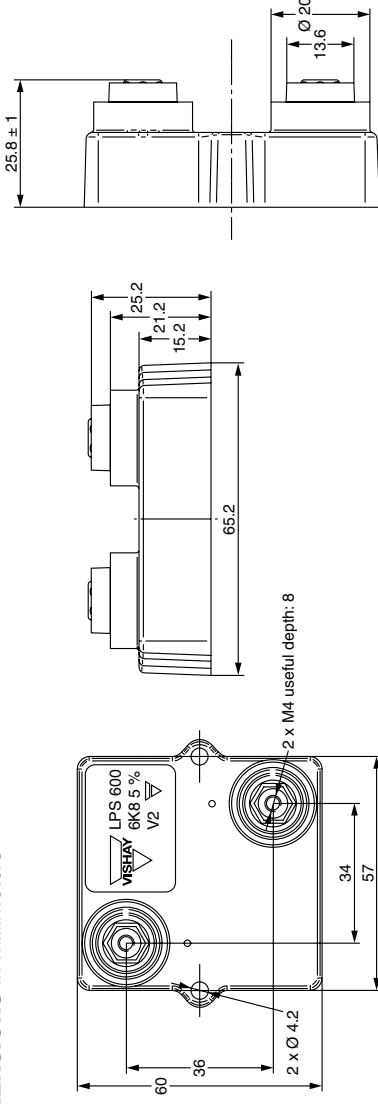
### FEATURES

- 300 W, 600 W, and 800 W at 85 °C case temperature
- Wide resistance range: 0.3 Ω to 900 kΩ E24 series
- Non inductive
- Easy mounting
- Low thermal radiation of the case
- Compliant to RoHS directive 2002/95/EC



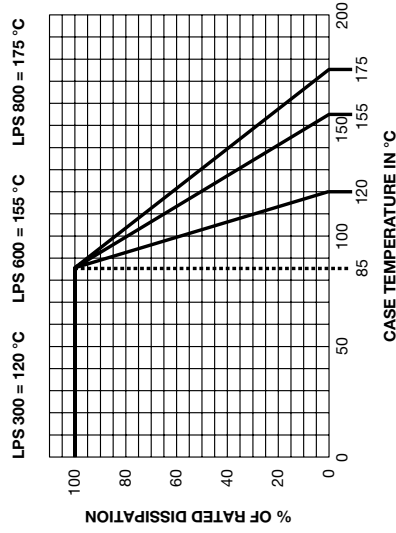
**RoHS**  
COMPLIANT

### DIMENSIONS in millimeters



Tolerance unless stated: ± 0.2 mm

### POWER RATING CHART



### GLOBAL PART NUMBER INFORMATION

<b>L</b>	<b>P</b>	<b>S</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>H</b>	<b>4</b>	<b>7</b>	<b>R</b>	<b>0</b>	<b>J</b>	<b>B</b>
<b>GLOBAL MODEL</b>												
LPS 300												
LPS 600												
LPS 800												
<b>DIELECTRIC</b>												
L = Dielectric strength 7 kV												
H = Dielectric strength 12 kV												
<b>OHMIC VALUE</b>												
The first three digits are significant figures and the last digit specifies the number of zeros to follow. R designates decimal point.												
48R7 = 48.7 Ω												
47R0 = 47 Ω												
1001 = 1 kΩ												
4R70 = 4.7 Ω												
R240 = 0.24 Ω												
<b>TOLERANCE</b>												
F = 1 %												
G = 2 %												
J = 5 %												
K = 10 %												
<b>PACKAGING</b>												
B = Box 15 pieces												
N = Box 15 pieces N/A (1 to 14 pieces by box)												
<b>SPECIAL</b>												
As applicable ZAX												

Revision 14-Apr-09

**DISCLAIMER** All product specifications and data are subject to change without notice. Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or omissions contained herein or in any other disclosure relating to any product. Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed herein, which apply to these products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications. Product names and markings noted herein may be trademarks of their respective owners.