

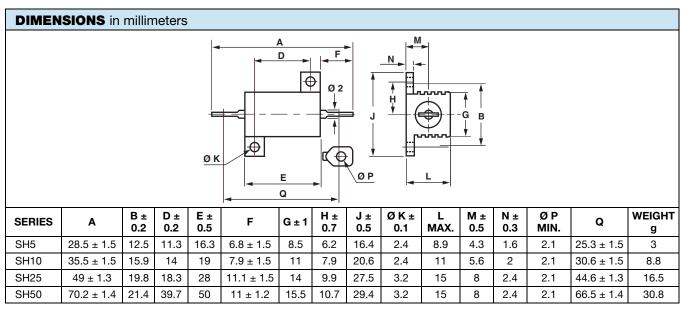
# Heatsink Encased Wirewound Power Resistors Industrial Applications



#### **FEATURES**

- ≤ 50 W at + 25 °C
- · High power characteristics
- Utilize heatsink capability
- Good mechanical protection
- Industrialized product
- Material categorization: For definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

Built for high power dissipation applications, these components have very good overall characteristics for industrial use under harsh environmental conditions.



STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	RESISTANCE RANGE $\Omega$	RATED POWER P <sub>25°C</sub> W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %		
SH5	0.1 to 3.3K	10	160	5		
SH10	0.1 to 15K	12.5	250	5		
SH25	0.1 to 33K	25	550	5		
SH50	0.1 to 51K	50	1285	5		

TECHNICAL SPECIFICATIONS					
VISHAY SFERNICE SERIES		SH5	SH10	SH25	SH50
Power Rating	at 25 °C	10 W	12.5 W	25 W	50 W
Chassis mounted resistors: 413 cm <sup>2</sup> for SH5 and SH10, 536 cm <sup>2</sup> for SH25 and SH50	at 70 °C	8 W	10 W	20 W	40 W
Harris alad a state a	at 25 °C	4 W	6 W	9 W	12 W
Unmounted resistors	at 70 °C	3.2 W	4.8 W	7.2 W	9.6 W
Dielectric Strength V <sub>RMS</sub>		800 V	1000 V	2000 V	2000 V
Insulation Resistance		$> 10^4  \mathrm{M}\Omega$		$>$ 3 x 10 <sup>4</sup> M $\Omega$	
Temperature Coefficient			± 50 ppm/°C	$R_{\rm n} > 50~\Omega$	
Climatic Category		55/200/56			
Temperature Limits			- 55 °C	+ 200 °C	

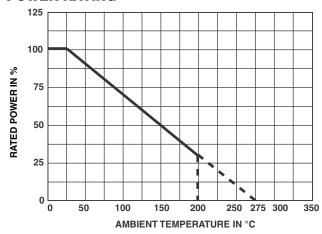
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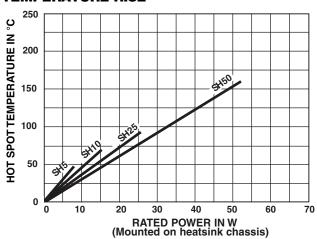
## Vishay Sfernice

PERFORMANCE						
TESTS	CONDITIONS	TYPICAL DRIFTS				
Momentary Overload	5 P <sub>n</sub> /5 s	± 0.5 % max.	+ 0.05 Ω			
Climatic Sequence	- 55 °C + 200 °C 5 cycles	± 1 % max.	+ 0.05 Ω			
Load Life	Nominal power <i>P</i> <sub>n</sub> 1000 h at 25 °C	± 1 % max.	+ 0.05 Ω			

#### **POWER RATING**



#### **TEMPERATURE RISE**



#### **MARKING**

Vishay Sfernice trademark, model, style, nominal resistance (in  $\Omega$ ), tolerance (in %), manufacturing date.

PACKAGING	
Bag of 10 units	

ORDERING INFORMATION						
SH	25	10 kΩ	5 %	BA10	e1	
MODEL	STYLE	OHMIC VALUE	TOLERANCE	PACKAGING	LEAD (Pb)-FREE	

SAP PART NUMBERING GUIDELINES						
SH	25	10001	J	<b>S</b> 03		
MODEL	STYLE	OHMIC VALUE	TOLERANCE	PACKAGING		



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Vishay

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