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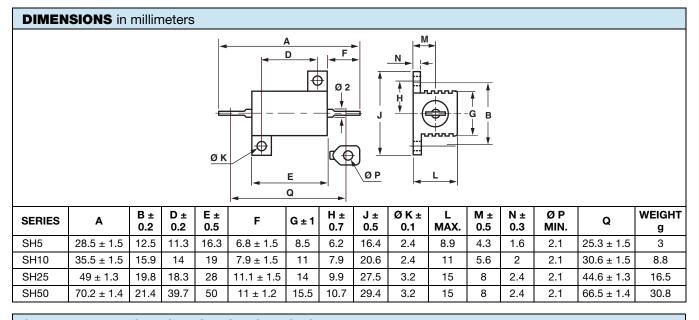
Heatsink Encased Wirewound Power Resistors Industrial Applications



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 <u>www.vishay.com/doc?99912</u>

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



STANDARD ELECTRICAL SPECIFICATIONS					
MODEL	$\begin{array}{c} \text{RESISTANCE RANGE} \\ \Omega \end{array}$	RATED POWER P _{25 °C} 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 ² for SH5 and SH10, 536 cm ² for SH25 and SH50	at 70 °C	8 W	10 W	20 W	40 W
	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 _{RMS}		800 V	1000 V	2000 V	2000 V
Insulation Resistance		> 10 ⁴ ΜΩ		> 3 x 10 ⁴ MΩ	
Temperature Coefficient			± 50 ppm/°C	$R_{\rm n}$ > 50 Ω	
Climatic Category		55/200/56			
Temperature Limits			- 55 °C	+ 200 °C	



SH

Vishay Sfernice



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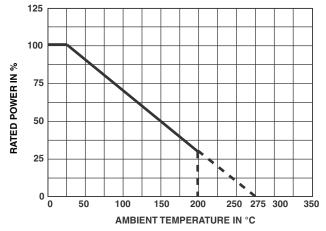
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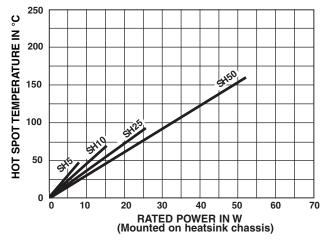
SH

PERFORMANCE			
TESTS	CONDITIONS	TYPICAL DRIFTS	
Momentary Overload	5 <i>P</i> _n /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 P _n 1000 h at 25 °C	± 1 % max.	+ 0.05 Ω

POWER RATING



TEMPERATURE RISE



MARKING

Vishay Sfernice trademark, model, style, nominal resistance (in Ω), tolerance (in \Re), 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	S03		
MODEL	STYLE	OHMIC VALUE	TOLERANCE	PACKAGING		



Vishay

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