

Heatsink Encased Wirewound Power Resistors Industrial Applications

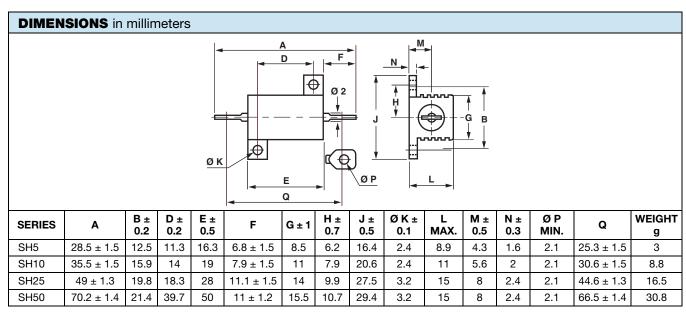


FEATURES

- ≤ 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>

RoHS COMPLIANT

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 Ω	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
Henry waterd we sintens	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		$> 10^4 \text{ M}\Omega$		$>$ 3 x 10 ⁴ M Ω	
Temperature Coefficient		\pm 50 ppm/°C $R_{\rm n}$ > 50 Ω			
Climatic Category		55/200/56			
Temperature Limits		- 55 °C + 200 °C			

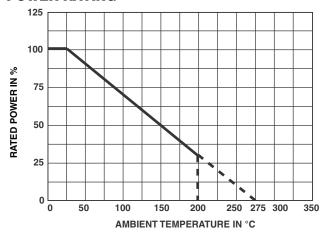
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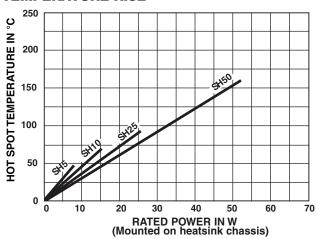
Vishay Sfernice

PERFORMANCE						
TESTS	CONDITIONS	TYPICAL DRIFTS				
Momentary Overload	5 P _n /5 s	± 0.5 % max. + 0.05 Ω				
Climatic Sequence	- 55 °C + 200 °C 5 cycles	\pm 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 %), 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	\$03	
MODEL	STYLE	OHMIC VALUE	TOLERANCE	PACKAGING	



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