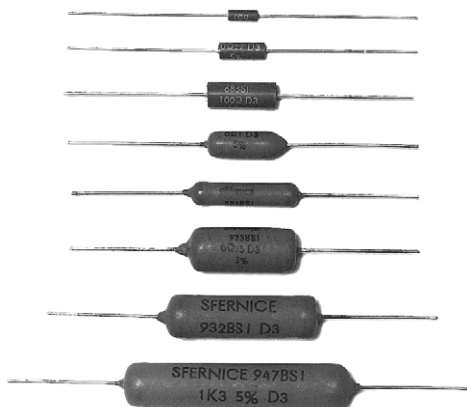


Molded Wirewound Power Resistors Axial Leads

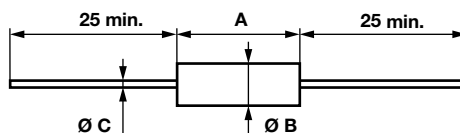


FEATURES

- 2 W
- Excellent stability = typical drift $\pm 1\%$ after 2000 h
- Low ohmic values = $0.025\ \Omega$ available
- Electrical insulation
- Climatic protection
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

DIMENSIONS in millimeters



MODEL	PROTECTION			
	A	Ø B	Ø C ± 0.1	WEIGHT (g)
63BSI	10 ± 0.2	3.7 ± 0.1	0.6	0.45

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER $P_{25\ ^\circ\text{C}}$ W	LIMITING ELEMENT VOLTAGE V	TOLERANCE $\pm \%$	TEMPERATURE COEFFICIENT $\pm \text{ppm}/^\circ\text{C}$
63BSI	063	0.025 to 4K	2	120	0.5, 1, 2, 5	100, 300

TECHNICAL SPECIFICATIONS

VISHAY SFERNICE SERIES			63BSI
Ohmic range in relation to	$\pm 100\ \text{ppm}/^\circ\text{C}$	$\pm 0.5\%$ $\pm 5\%$	0.1 Ω 4 k Ω
Temperature coefficient	$\pm 300\ \text{ppm}/^\circ\text{C}$	$\pm 1\%$ $\pm 5\%$	0.025 Ω < 0.1 Ω

MECHANICAL SPECIFICATIONS

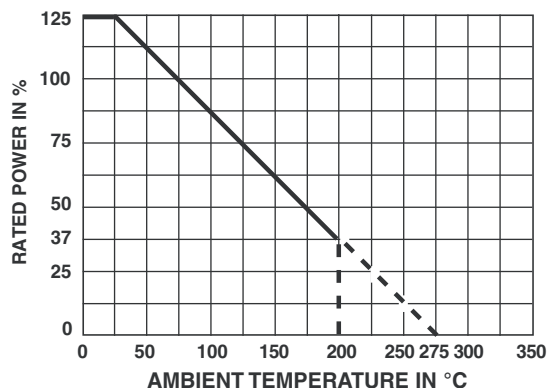
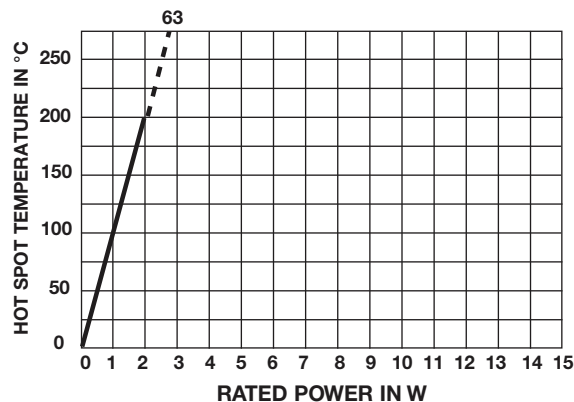
Mechanical Protection	Molded
Resistive Element	CuNi or CrNi
Substrate	Alumina
Connections	Sn/Ag/Cu 99/0.3/0.7

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	-55 $^\circ\text{C}$ to +275 $^\circ\text{C}$
Climatic Category	55/200/56



PERFORMANCE			
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES AND DRIFTS
Dielectric Strength	IEC 60115-1 1000 V _{RMS} for 923 to 947 500 V _{RMS} for 58 to 523	$\pm (0.1 \% + 0.05 \Omega)$	$\pm (0.1 \% + 0.05 \Omega)$
Short Time Overload	IEC 60115-1 5 P _n / 5 s for P _r < 5 W 10 P _n / 5 s for P _r ≥ 5 W	$\pm (0.2 \% + 0.05 \Omega)$	$\pm (0.1 \% + 0.05 \Omega)$
Endurance	IEC 60115-1 90' / 30' P _r at 25 °C, 2000 h	$\pm (1 \% + 0.05 \Omega)$	$\pm (0.1 \% + 0.05 \Omega)$
Endurance at High Temperature	250 h at 275 °C	$\pm (0.5 \% + 0.05 \Omega)$	$\pm (0.3 \% + 0.05 \Omega)$
Thermal Shock	Load at 100 % P _r followed by cold temp. exposure at -55 °C	$\pm (0.2 \% + 0.05 \Omega)$	$\pm (0.1 \% + 0.05 \Omega)$
Climatic Sequence	IEC 60115-1 -55 °C / +200 °C 5 cycles	$\pm (0.5 \% + 0.05 \Omega)$ Insulation resistance ≥ 100 MΩ	$\pm (0.3 \% + 0.05 \Omega)$ Insulation resistance > 10 GΩ
Damp Heat, Steady State	IEC 60115-1 / IEC 60068-2-78 56 days, 40 °C, 93 % RH	$\pm (0.5 \% + 0.05 \Omega)$ Insulation resistance ≥ 100 MΩ	$\pm (0.3 \% + 0.05 \Omega)$ Insulation resistance > 10 GΩ
Moisture Resistance	MIL-STD-202 method 106	$\pm (0.2 \% + 0.05 \Omega)$ Insulation resistance ≥ 100 MΩ	$\pm (13 \% + 0.05 \Omega)$ Insulation resistance > 10 GΩ
Shock	MIL-STD-202 100 g method 205 - test C	$\pm (0.1 \% + 0.05 \Omega)$	$\pm (0.05 \% + 0.05 \Omega)$
Vibration	MIL-STD-202 method 204 - Test D: 20 g 10Hz / 2000 Hz	$\pm (0.1 \% + 0.05 \Omega)$	$\pm (0.05 \% + 0.05 \Omega)$

POWER RATING**TEMPERATURE RISE****MARKING**

GEKA trademark, model, style, nominal resistance (in Ω), tolerance (in %), manufacturing date.
Because of lack of space, small styles are marked with ohmic value (in Ω), and tolerance (in %) only.

ORDERING INFORMATION						
BSI	63	U22	2 %	$\pm 100 \text{ ppm}/^\circ\text{C}$	TR300	e1
MODEL	STYLE	OHMIC VALUE	TOLERANCE	TEMPERATURE COEFFICIENT	PACKAGING	LEAD (Pb)-FREE

GLOBAL PART NUMBER INFORMATION															
B	S	I	0	6	3	2	R	8	7	0	F	R	2	2	
GLOBAL MODEL	SIZE		OHMIC VALUE					TOLERANCE			PACKAGING			SPECIAL	
BSI	063		The first digits are significant figures and the last digit specifies the number of zeros to follow. R designates decimal point. 2R870 = 2.87 Ω 1R200 = 1.2 Ω 10001 = 10 000 Ω R3300 = 0.33 Ω ...					D = 0.5 % F = 1 % G = 2 % J = 5 %			Size 058: R26 = reel (5000 pieces) size 063: R22 = reel (3000 pieces) size 68, 516, 523: R17 = reel (1250 pieces) size 923, 932, 947: B19 = box (30 pieces) Other packaging existing			As applicable Ex = BP1	



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