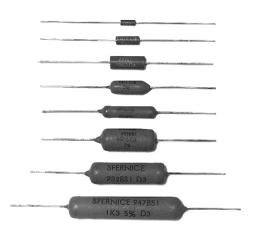
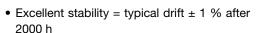


## **Molded Wirewound Power Resistors Axial Leads**



#### **FEATURES**

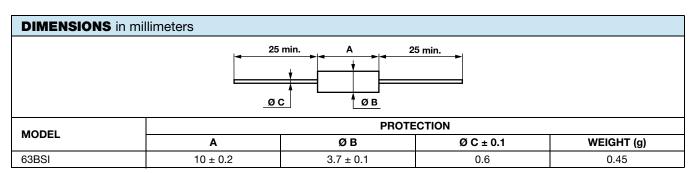






COMPLIANT

- Low ohmic values =  $0.025 \Omega$  available
- Electrical insulation
- · Climatic protection
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>



STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER  P <sub>25 °C</sub> W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°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	± 100 ppm/°C	± 0.5 % ± 5 %	0.1 Ω 4 kΩ		
Temperature coefficient	± 300 ppm/°C	± 1 % ± 5 %	$0.025~\Omega$ < $0.1~\Omega$		

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

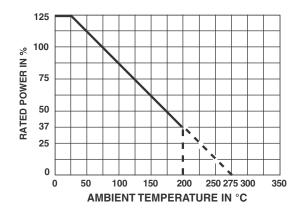
ENVIRONMENTAL SPECIFICATIONS			
Temperature Range	-55 °C to +275 °C		
Climatic Category	55/200/56		

Vishay Sfernice



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

#### **POWER RATING**



#### **TEMPERATURE RISE**

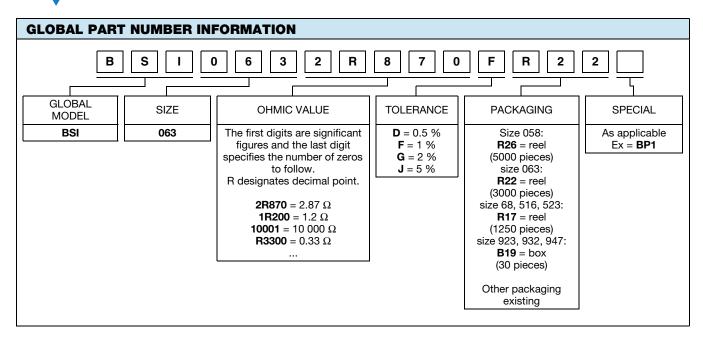


#### **MARKING**

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

ORDERING INFORMATION						
BSI	63	U22	2 %	± 100 ppm/°C	TR300	e1
MODEL	STYLE	OHMIC VALUE	TOLERANCE	TEMPERATURE COEFFICIENT	PACKAGING	LEAD (Pb)-FREE

# Vishay Sfernice





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