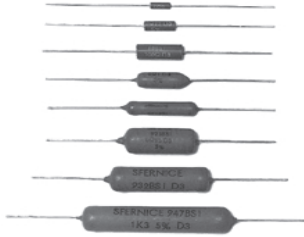


Moulded and Insulated Wirewound Precision Power Resistors Axial Leads

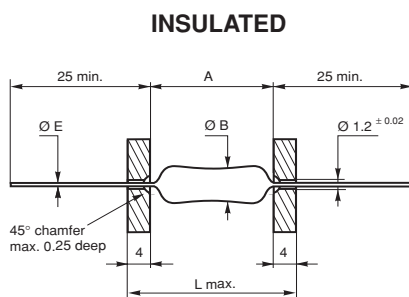
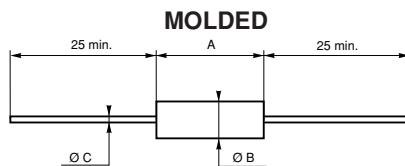


FEATURES

- 1 Watt to 10 Watt
- NF C 83-210
- GAM T1 LNZ
- Excellent stability
- High power
- Low ohmic values
- Electrical insulation
- Climatic protection

BSI style resistors comply with the most stringent requirements of the NF C 83-210 and MIL-R-26 E specifications. 8 styles covering the power range from 1 W to 10 W

DIMENSIONS in millimeters



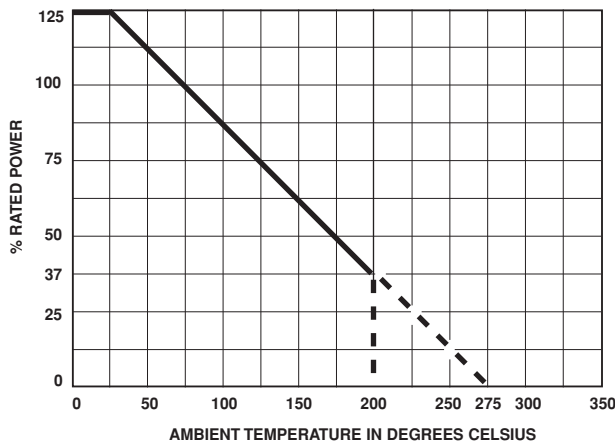
DIMENSIONS in millimeters								
PROTECTION	MOLDED			INSULATED				
Style	58 BSI	63 BSI	68 BSI	516 BSI	523 BSI	923 BSI	932 BSI	947 BSI
Dim. A	6.5 ± 0.2	10 ± 0.2	15 ± 0.5	16 ± 2	23 ± 2	23 ± 2	32 ± 2	47 ± 2
Ø B	2.4 ± 0.1	3.7 ± 0.1	5.6 ± 0.2	5 ± 1	5 ± 1	9 ± 1	9 ± 1	9 ± 1
Ø C ± 0.1	0.6			0.8				
Weight in g	0.3	0.45	1.3	1.6	2.5	6	7.5	10

TECHNICAL SPECIFICATIONS

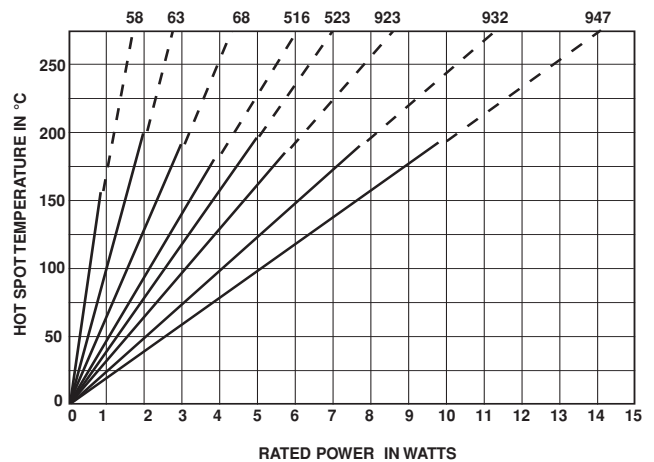
VISHAY SFERNICE MODEL AND STYLE	58 BSI	63 BSI	68 BSI	516 BSI	523 BSI	923 BSI	932 BSI	947 BSI
NF C 83-210 Conformity	RP 8	RP 7	RP 4	–	–	RP 5	–	RP 6
MIL-R-26 E Conformity	RW 81	RW 80	RW 79	–	–	RW 74	–	RW 78
LNZ	yes	yes	yes	–	–	yes	–	yes
GAM-T-1	yes	yes	yes	–	–	yes	–	yes
Power Rating at + 25°C	1W	2W	3W	4W	5W	6W	8W	10W
Ohmic Range	0.1Ω 2kΩ	0.025Ω 4kΩ	0.01Ω 15kΩ	0.01Ω 20kΩ	0.015Ω 40kΩ	0.02Ω 60kΩ	0.035Ω 100kΩ	0.06Ω 150kΩ
Ohmic Range in Relation to ± 100ppm/°C to ± 0.25% ± 5%	0.1Ω 2kΩ	0.1Ω 4kΩ	0.1Ω 15kΩ	0.1Ω 20kΩ	0.1Ω 40kΩ	0.1Ω 60kΩ	0.1Ω 100kΩ	0.1Ω 150kΩ
Temperature Coefficient ± 300ppm/°C to ± 1% ± 5%	–	0.025Ω < 0.1Ω	0.01Ω < 0.1Ω	0.01Ω < 0.1Ω	0.015Ω < 0.1Ω	0.02Ω < 0.1Ω	0.035Ω < 0.1Ω	0.06Ω < 0.1Ω
Limiting Element Voltage	50V	120V	200V	200V	250V	300V	500V	750 V

PERFORMANCE				
TESTS	CONDITIONS	REQUIREMENTS		TYPICAL VALUES AND DRIFTS
		MIL-R-26 E	NF C 83-210	
Dielectric W/s Voltage	1000VRMS for 923... 947 500VRMS for 58... 523	$\pm (0.1\% + 0.05\Omega)$	–	$\pm (0.1\% + 0.05\Omega)$
Short Time Overload	5Pn/5s for Pn < 5W 10Pn/5s for Pn \geq 5W	$\pm (0.2\% + 0.05\Omega)$	$\pm 0.25\% + 0.05\Omega$	$\pm (0.1\% + 0.05\Omega)$
Climatic Sequence	NF C 83-210 fasc. 19A - 55°C/+ 200°C 5 cycles	–	$\pm 0.5\% + 0.05\Omega$ Insulation R > 100M Ω	$\pm (0.3\% + 0.05\Omega)$ Ins. resistance > 10 ³ M Ω
Humidity (Steady State)	NF C 83-210 fasc. 3A 56 days 95% R.H.	–	$\pm 0.5\% + 0.05\Omega$ Insulation R > 100M	$\pm (0.3\% + 0.05\Omega)$ Ins. resistance > 10 ³ M Ω
Thermal Shock	Load at 100% P followed by cold temp. exposure at – 55°C	$\pm (0.2\% + 0.05\Omega)$	$\pm 0.25\% + 0.05\Omega$	$\pm (0.1\% + 0.05\Omega)$
Vibration	MIL-STD-202 Method 204 - Test D:20g 10/2000Hz	$\pm (0.1\% + 0.05\Omega)$	$\pm 0.25\% + 0.05\Omega$	$\pm (0.05\% + 0.05\Omega)$
Load Life	MIL-STD-202 Method 108PR 2000h	$\pm (0.5\% + 0.05\Omega)$	$\pm 0.5\% + 0.05\Omega$ Insulation R \geq 1G Ω	$\pm (1\% + 0.05\Omega)$
Moisture Resistance	MIL-STD-202 Method 106	$\pm (0.2\% + 0.05\Omega)$ Insulation resistance > 100M Ω	–	$\pm (1\% + 0.05\Omega)$ Ins. resistance > 10 ³ M Ω
High Temperature	250h at + 275°C	$\pm (0.5\% + 0.05\Omega)$	$\pm 0.5\% + 0.05\Omega$ Insulation R 1G Ω	$\pm (0.3\% + 0.05\Omega)$
Shock	MIL-STD-202 100g Method 205 - Test C	$\pm (0.1\% + 0.05\Omega)$	$\pm 0.25\% + 0.05\Omega$	$\pm (0.05\% + 0.05\Omega)$

POWER RATING CHART



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	1k Ω	$\pm 0.5\%$	$\pm 100\text{ppm}/^\circ\text{C}$
MODEL	STYLE	OHMIC VALUE	TOLERANCE	TEMPERATURE COEFFICIENT