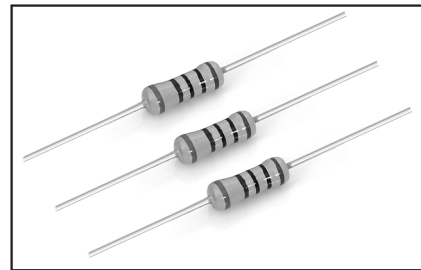


Bleed Resistors

- Provide high stable performance against environmental conditions and over load voltage.
- Wide resistance range
- Resistance and tolerance are indicated as four or five color coding to IEC rules of marking code for resistor.
- Easily readable color coding



GENERAL SPECIFICATIONS

Model	Power Rating at 70°C	Maximum Working Voltage [V]	Resistance Range [Ω]	Resistance Tolerance [%]	Climatic category (IEC68)	Safety Approvals
BL 40	0.5	8000	1M ~ 1000M	±1%, ±2%, ±5%, ±10%, ±20%	26	
BL 50	1	10000			26	
BL 68	2	13000			32	

CHARACTERISTICS

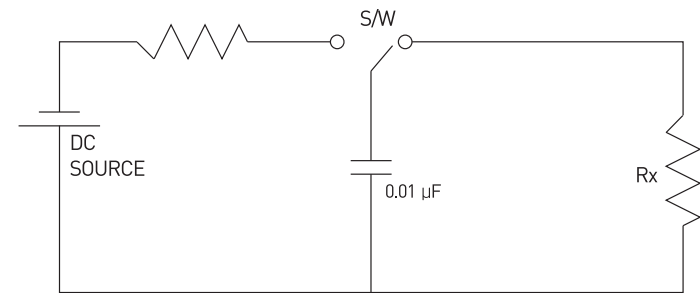
Values in [] mean change in Ω after test

Insulation Resistance (V-block Method)	>10 MΩ	BL40, BL50: 700±50V DC during 1minute V-Block method BL68: 1000±50V DC during 1minute V-block method
Temperature Coefficient	±200ppm/°C	-55°C: 30minutes +155°C: 30minutes $TCR = [(R_2 - R_1) / R_1 (T_2 - T_1)] \times 10^6$
Short Time Overload	±[2%+0.05Ω]	4 x Rated voltage 5seconds on, 45seconds off, 10Cycles
Rapid Change of Temperature	±[1%+0.05Ω]	30minutes -55°C, 30minutes +155°C, 5Cycles
Damp Heat Steady State	±[2%+0.05Ω]	40±2°C; 90-95%, 56days after 30minutes, dissipation ≤0.01Pn
Over Load Test	±[2%+0.05Ω]	2.5 X Rated voltage 1minute
Endurance	±[3%+0.05Ω]	70±3°C, 0.5hour on, 0.5hour off cycle, 1000±12hours, Pn of Vmax.
Vibration	±[1%+0.05Ω] no damage	Frequency 10-55Hz displacement 1.5mm or acceleration 10g Three direction : total 6hours(2hours X 3)
Solderability	Good tinning no damage 95%	Solderability : 2seconds, 235±5°C. Flux 600
Surge Test	±[10%+0.05Ω] no damage	R>1M:10nF/10kV (2.5 on/off), 50Cycles
Torsion	no damage	2.5kgf remains 5-10seconds

DIMENSIONS [mm]

Model	Rating Power at 70°C [W]	Dimensions (mm)			
		D max.	L max.	d±0.05	H±3
BL 40	0.5	4	14	0.7	26
BL 50	1	4	16	0.7	26
BL 68	2	5.5	16	0.8	32

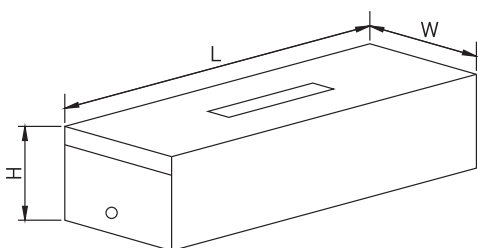
HIGH VOLTAGE SURGE TEST

	<ul style="list-style-type: none"> • 10 discharges from a 10nF capacitor charged to Vmax.: 12 discharges/min • no evidence of flash over, mechanical damage, arcing of, insulation breakdown.
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ORDERING PROCEDURE EXAMPLE

BLEE	242	12	XXX
↓	↓	↓	↓
Model #	Power Rating	Tolerance	Normal Resistance
	242: 0.5W	14: ±1%	
	243: 1W	13: ±2%	
	244: 2W	12: ±5%	
		11: ±10%	

PACKING [mm]

	Model	Style	Packing	W	H	L	Packing Unit [pcs]
	BL 40	Straight taping	Inner	73	71	260	1000
	BL 50						1000
	BL 68						500