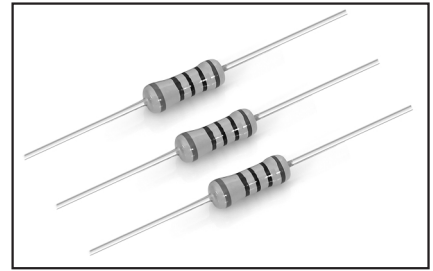


Bleed Resistors

- Provide high stable performance against environmental conditions and over load voltage.
- Wide resistance range
- Resistance and tolerance are indicated as four of 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 $TCR = \frac{(R2-R1)}{R1(T2-T1)} \times 10^6$
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

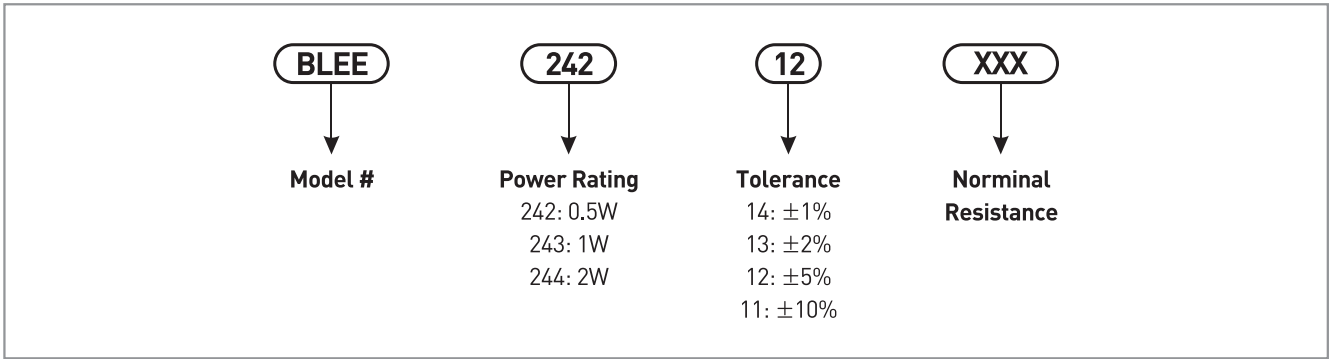
DIMENSIONS [mm]

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

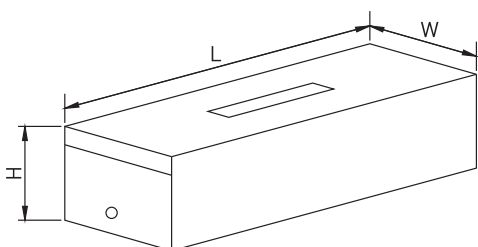
HIGH VOLTAGE SURGE TEST

- 10 discharges from a 10nF capacitor charged to Vmax.: 12 discharges/min
- no evidence of flash over, mechanical damage, arching of, insulation breakdown.

ORDERING PROCEDURE EXAMPLE



PACKING [mm]



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