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Resistors And
Resistive Applications

BL
Bleed Resistor (BL40/50/68)

■ Features

- 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.
- Color coding should be satisfied on the standards and good discernment.

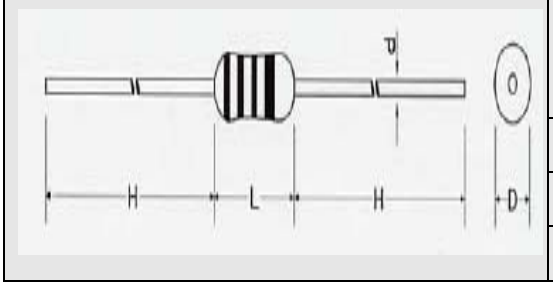
■ GENERAL SPECIFICATIONS

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

■ CHARACTERISTICS

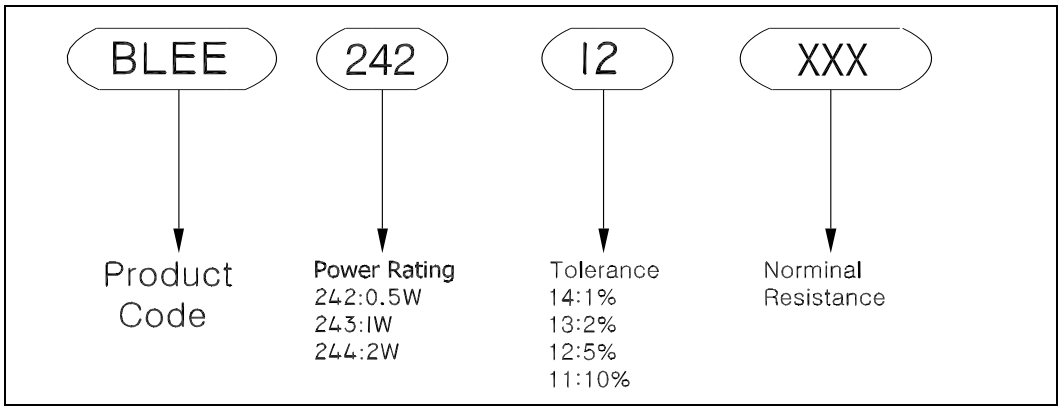
Insulation Resistance (V-block Method)	>10 MΩ	BL40,BL50 :700±50V DC during 1min. V-Block method BL68 : 1000±50V DC during 1min. V-block method
Temperature Coefficient	±200PPM	-55℃:30min, +155℃:30min. T/C=(R2-R1)/R1/(T2-T1)X10^{-6}
Short Time Over Load	max. ±[2%]	Rated voltage X 4 5sec on, 45sec off, 10Cycle
Rapid Change of Temperature	max. ±[1%]	30min -55℃, 30min +155℃, 5Cycle
Damp Heat Steady state	max. ±[2%]	40±2℃; 90-95%, 56days after 30min, dissipation≤0.01Pn
Over Load Test	max. ±[2%]	2.5 X rated voltage(1min)
Endurance	max. ±[3%]	70±3℃, 0.5hour on, 0.5hour off Cycle, 1000±12hour, Pn of Vmax
Vibration	max. ±[1%] no damage	Frequency 10-55Hz Displacement 1.5mm or acceleration 10g Three Direction : total 6h(2 X 3h)
Solderability	Good tinning no damage 95%	Solderability : 2sec, 235±5℃. Flux 600
Surge Test	max. ±[10%] no damage	R>1M:10nF/10kV (2.5 on/off), 50Cycle
Torsion	no damage	2.5Kg.f remains 5-10sec

■ DIMENSIONS

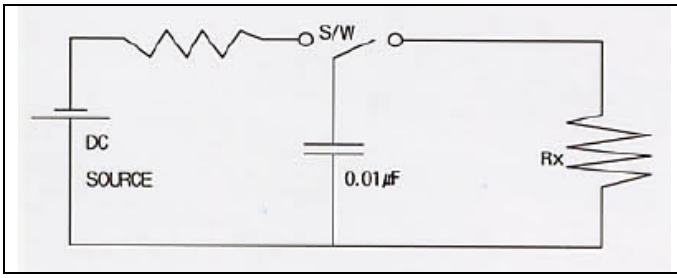


Model	Rating Power at 70℃ [W]	Dimensions (mm)			
		D max	L max	d +0.02 -0.05	H±3
BL 40	0.5	4	14	0.7	26
BL 50	1	4	16	0.7	26
BL 68	2	5.5	16	0.8	32

■ ORDERING PROCEDURE EXAMPLE

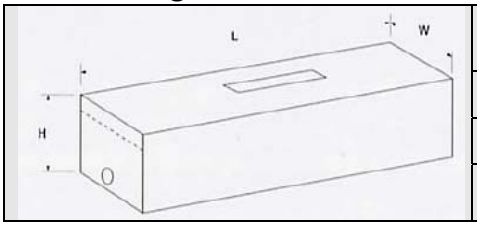


■ HIGH VOLTAGE SURGE TEST



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

■ Packing



Model	Style	Packing	W	H	L	Packing Unit
BL 40	Strainght taping	Inner	73	71	260	1000
BL 50						
BL 68						500