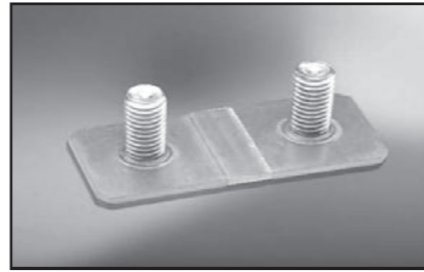


Precision Resistors for Current Applications

These components have excellent long term stability and can handle continuous current of up to 200 amperes(0.1mΩ). Units have a low inductance, heavy copper terminals and 3W continuous power. Easily mounted using reflow soldering, welding on copper or bolted onto cables or bus bars. Maximum soldering temperatures of 350 °C/30sec. or 250°C/10min. Applications include: KWh meters, energy metering, battery current sensing, high current automotive circuits and high current measurement in welding machines.



GENERAL SPECIFICATIONS

Model	Wattage Rating	Resistance Range[Ω]	Tolerance(%)	TCR
BVM-F	5W	0.1m / 0.2m / 0.3m (0.3mΩ under development)	J [±5]	< 20ppm/°C(20°C~60°C)

CHARACTERISTICS

Operating Temp	-55°C~+140°C
Internal Heat Resistance	< 10K/W
Inductance	< 1nH
Load Life (nominal load)	Deviation < 0.5% after 2000 hours at 80 °C

DIMENSIONS [mm]

BVM-F(mm) version A

R	B
0.1mΩ	5.0±0.3mm
0.2mΩ	10.0±0.3mm

t=1.0 bis 1.5mm
Z-YF-051c

BVM-F(mm) version B

R	B
0.1mΩ	5.0±0.3mm
0.2mΩ	10.0±0.3mm

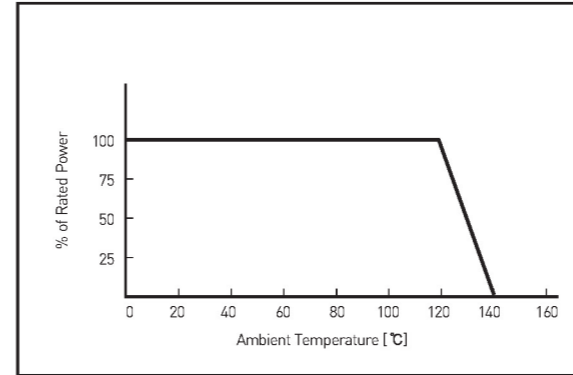
t=1.0 bis 1.5mm
Z-YF-051c

BVM-F(mm) version D

R	B
0.1mΩ	5.0±0.3mm
0.2mΩ	10.0±0.3mm

Z-YF-051c

POWER DERATING



TEMPERATURE DEPENDENCE

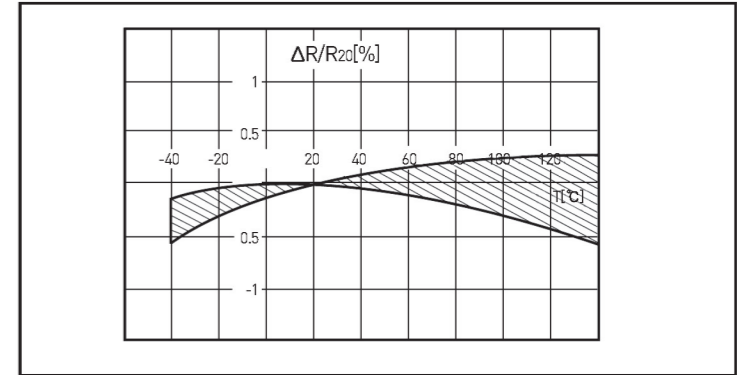
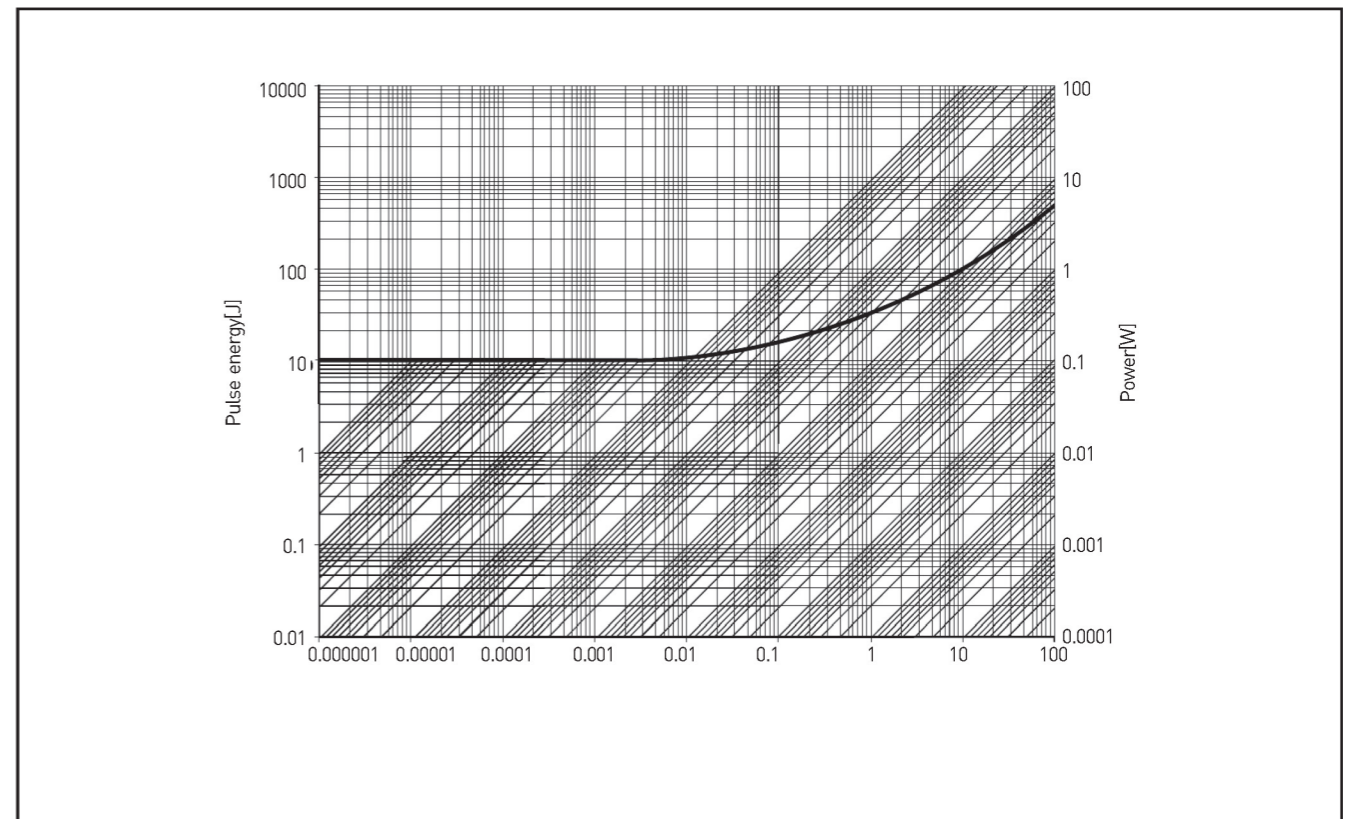


DIAGRAM OF PULSE ENERGY



ORDERING PROCEDURE EXAMPLE AND NOTES

BVM-F

↓

Model #

R0001

↓

Resistance Value
(R=0.1mΩ)

5.0

↓

Tolerance
J(±5%)

A

↓

Version

Note:
Packing: 1000pcs in plastic bags sealed filled with dry Nitrogen
Remarks for mounting: The resistor is designed for direct reflow solder mounting on a pc-board or screwed direct with the bus bar or cable