

ISA-WELD SHUNT CHIP RESISTORS

BVR, BVB

[Features/Applications]

- Ideal for current sensing of motor driver and inverter applications
- Excellent TCR, high precision sensing by 4-terminal structure
- Optimized terminal structure for small mount space
- AEC-Q200 qualified



BVR Series(4026)

Applicable Temperature Range : -65°C to +170°C

Part Number	Resistance Value (mΩ)	Rated Power (W)	Tolerance (%)	Temperature Coefficient (ppm/°C) (20°C to 60°C)	Max. Continuous Current (A)	Rated Terminal Temperature *2	Internal Heat Resistance(Rthi) (Between resistance element and terminal)	Size (inch)
BVR-Z-R0002	0.2	12	±1	0 ± 20	244	122	4°C/W	4026
BVR-Z-R0003	0.3	11		0 ± 20	191	115	5°C/W	
BVR-Z-R0004	0.4	10		0 ± 20	158	100	7°C/W	
BVR-Z-R0005	0.5	9		0 ± 20	134	98	8°C/W	
BVR-Z-R00062	0.62	8		0 ± 20	113	90	10°C/W	
BVR-M-R0007	0.7	8		0 ± 50	106	74	12°C/W	
BVR-M-R001	1	7		0 ± 50	83	72	14°C/W	
BVR-I-R002	2	6		0 ± 50	54	86	14°C/W	
BVR-I-R003	3	5		0 ± 50	40	65	21°C/W	


[Click for BVR Data Sheet](#)

BVB Series(2725)

Applicable Temperature Range : -65°C to +170°C

Part Number	Resistance Value (mΩ)	Rated Power (W)	Tolerance (%)	Temperature Coefficient (ppm/°C) (20°C to 60°C)	Max. Continuous Current (A)	Rated Terminal Temperature *2	Internal Heat Resistance(Rthi) (Between resistance element and terminal)	Size (inch)
BVB-Z-R0002	0.2	12	±1	0 ± 20	244	122	4°C/W	2725
BVB-Z-R0003	0.3	11		0 ± 20	191	115	5°C/W	
BVB-Z-R0005	0.5	9		0 ± 20	134	98	8°C/W	
BVB-M-R0007	0.7	8		0 ± 20	106	74	12°C/W	
BVB-M-R001	1	7		0 ± 50	83	72	14°C/W	
BVB-I-R002	2	6		0 ± 50	54	86	14°C/W	
BVB-I-R003	3	5		0 ± 50	40	65	21°C/W	
BVB-I-R004	4	4		0 ± 50	31	58	28°C/W	
BVB-I-R005	5	3		0 ± 50	24	71	33°C/W	


[Click for BVB Data Sheet](#)

[Special Notes]

- *2 The value is defined when the rated power is applied.
- Rated Terminal Temperature depends on the power used. The Rated Terminal Temperature=170°C-(Applied Power x Rthi)

[Common Items]

- Resistive element material Z:ZERANIN®, M:MANGANIN®, I:ISAOHM®

⚠ Precautions

- Appropriate counter-measures for heat dissipation are necessary. See Power Derating Curve and use the resistor with appropriate load rate while paying attention to terminal temperature.
- Please ensure that the resistor is used within the Rated Power and not to exceed the Rated Terminal Temperature.
- Specifications are subject to change without notice. Please refer to the datasheet for the latest information.



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