mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

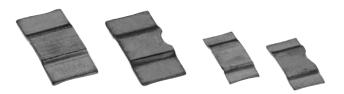
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EBW Series

Manganin/Aluchrom Alloy Current Sense

The EBW Series are manufactured using electron beam welding technology. This allows the joining of different alloys with great accuracy and tolerance. The EBW Series have heavy copper connectors, excellent long term stability and low inductance. These components can tolerate soldering temperatures of 350C for 30 seconds or 250C for 10min. These can be mounted using re-flow soldering or welding on copper. The EBWA can handle a power of 5W up to 100A at $0.5m\Omega$. The EBWB can handle a constant power of 7W at $0.2m\Omega$ and a continuous load of 180A at $0.2m\Omega$.



CERTIFICATIONS

BN ES ISO 9001: 2008 ISO/TS 16949: 2009

APPLICATIONS

- Current sensors for hybrid power sources
- Frequency converters
- High current automotive applications.

SERIES SPECIFICATIONS

Model	Power (W)	Resistance (m Ω)	Material	TCR (20°C - 60°C)	Weight (g)
EBWA-M	5	0.5	Manganin	±70ppm/°C	0.4081
	4	1	Manganin	±50ppm/°C	0.1994
EBWA-N	4	2	Aluchrom Alloy	±50ppm/°C	0.2726
	3	3	Aluchrom Alloy	±50ppm/°C	0.1832
	2.5	4	Aluchrom Alloy	±50ppm/°C	0.1363
EBWB-M	7	0.2	Manganin	±100ppm/°C	1.5138
	6	0.5	Manganin	±75ppm/°C	0.5652
EBWB-N	6	1	Aluchrom Alloy	±50ppm/°C	0.8573
	4	2	Aluchrom Alloy	±50ppm/°C	0.4287
	3.5	3	Aluchrom Alloy	±50ppm/°C	0.2858

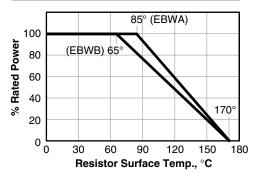
CHARACTERISTICS

Tolerance	±1%(F), ±5%(J)
TCR	20°C-60°C Max. ±200ppm/°C
	-55°C to 170°C
Temperature	

PERFORMANCE DATA

Thermal Shock	-65°C, 25°C, 125°C, 25°C 25cycles	±0.1%
Short Time Overload	Rated Power X 5 for 5 secs.	±0.2%
Resistance to Soldering Heat	350°C 30 sec. or 250°C 10 min.	±0.2%
Moisture Resistance	90~98%RH,+25°C,+65°C,-10°C 10 cycles	±0.2%
High Temperature Exposure	140°C for 250 hours	±0.2%
Vibration High Frequency	15g 10 to 2000Hz 36 cycles	±0.2%
Inductance		<3nH
Load Life	90 min "ON" 30 min "OFF" for 2000 hours	±1.0%

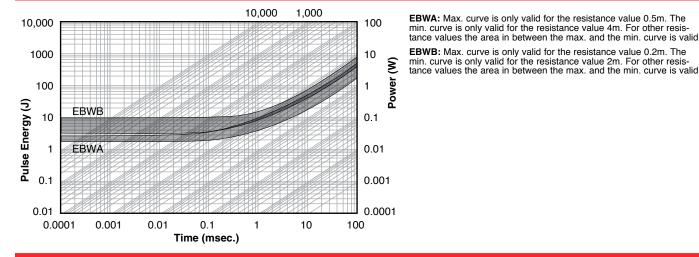
Derating

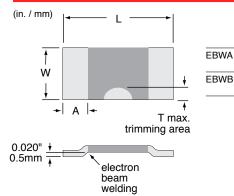


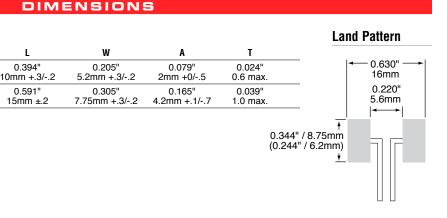
EBW Series

Manganin/Aluchrom Alloy Current Sense

PULSE ENERGY/POWER FOR CONTINUOUS OPERATION







Tape and Reel

