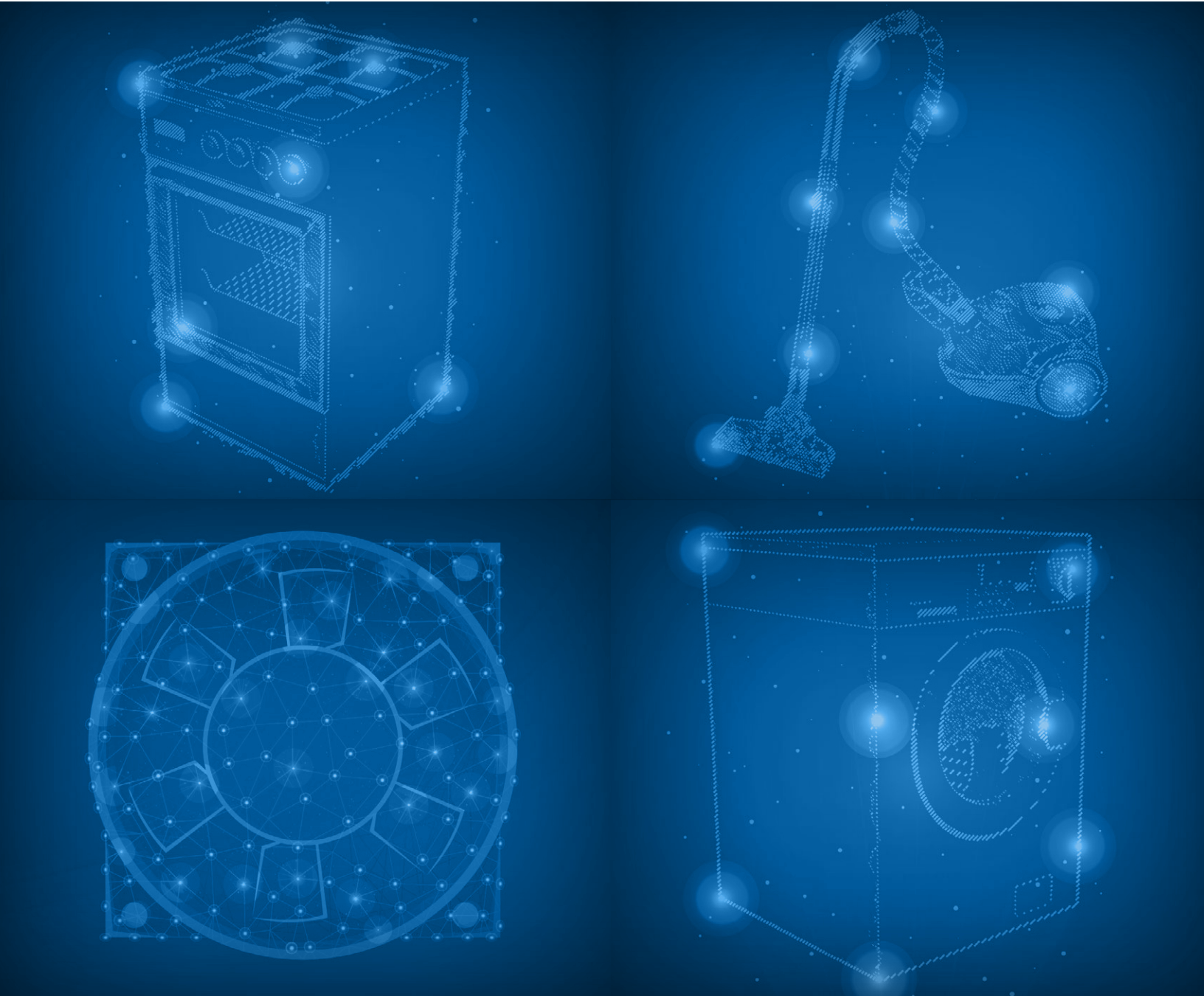


OUR SHUNTS HELP UPGRADE BRUSHLESS  
DC MOTOR SAFETY & EFFICIENCY FOR  
APPLIANCES AND CONSUMER GOODS



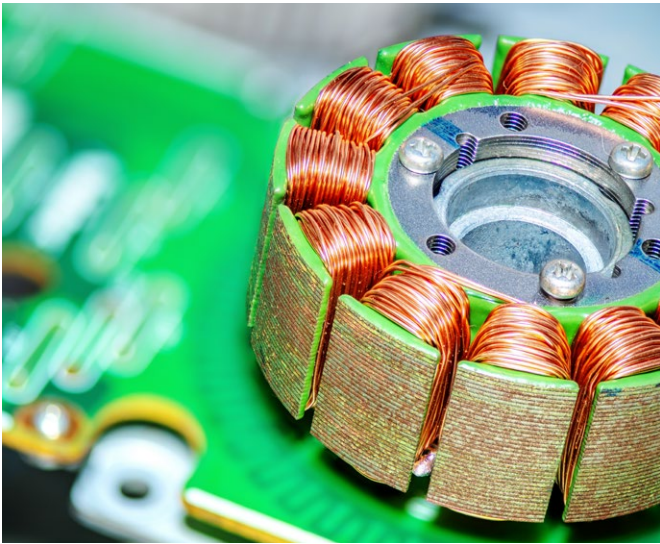
ISABELLENHÜTTE

Innovation by Tradition

JOINING THE DC-MOTOR REVOLUTION?  
HERE’S HOW BETTER SENSORS MAKE  
A DIFFERENCE...

Brushless motor advances are being used in new power-hungry and mission-critical applications for the first time. Pioneers in all sorts of consumer products and white goods are called upon to deliver more powerful, safer, and more energy-efficient products across hundreds of applications.

We’re here to help!



TIRED OF LOOKING FOR SUPPLIERS WILLING  
TO MEET YOUR EFFICIENCY STANDARDS?

Get the right resistor in the right format.

We offer a complete line of resistors and the ability to work with you to create customized solutions too.

Meet and exceed global energy-consumption standards.

These include, AEC-Q200 and RoHS 2011/65/E.



IT ALL STARTS WITH  
BETTER ALLOYS.

Our precision alloys comply with the strictest tolerances and international standards—with a level of quality that is renowned in the industry.

Our alloys MANGANIN®, ZERANIN®, ISAOHM®, and NOVENTIN® are homogenous solid-solution alloys that are annealed and stabilized in the primary thermodynamic state—guaranteeing stability values in the ppm range per annum.

A complete range of solutions for brushless motors...

|                   | BVB/BVN/BVR  | BVT/BVS/BVZ/BVE  | SMx  | VMx  | CMx  | FMx  | WAx  | VLx  |
|-------------------|--|--|--|--|--|--|--|--|
|                   |  |  |  |  |  |  |  |  |
| INTERFACE         | Surface Mount  | Surface Mount  | Surface Mount  | Surface Mount  | Surface Mount  | Surface Mount  | Surface Mount  | Surface Mount  |
| CURRENT RANGE     | 0.0002Ω–0.005Ω   | 0.0001Ω–0.0068Ω  | 0.0033Ω–4.7Ω   | 0.005Ω–1Ω  | 0.010Ω–0.5Ω  | 0.002Ω–0.006Ω  | 0.0005Ω–0.001Ω   | 0.001Ω–0.006Ω  |
| TEMPERATURE RANGE | 12W/10W/12W  | 3W/6W/12W/15W  | 1W/3W/5W/7W  | 0.5W/1.5W/3W/4W  | 1W/2W/2.5W   | 4W/2.5W/5W   | 7W/6W  | 3W/5W  |
| SIZE              | 2725/1216/4026   | 1213/2512/3920/4026/5930   | 1206/2010/2512/2817  | 0805/1206/2010/2512  | 1206/2010/2512   | 1206/2010/2512   | 1213/1206  | 0612/1020  |
| MAIN FEATURES     | <ul style="list-style-type: none"><li>• 4 terminal, high accuracy</li><li>• AEC-Q200 rated</li><li>• RoHS 2011/65/EU compliant</li></ul> | <ul style="list-style-type: none"><li>• Excellent long-term stability</li><li>• AEC-Q200 rated</li><li>• RoHS 2011/65/EU compliant</li></ul> | <ul style="list-style-type: none"><li>• Excellent long-term stability</li><li>• AEC-Q200 rated</li><li>• RoHS 2011/65/EU compliant</li></ul> | <ul style="list-style-type: none"><li>• High-pulse power rating</li><li>• AEC-Q200 rated</li><li>• RoHS 2011/65/EU compliant</li></ul> | <ul style="list-style-type: none"><li>• High-pulse power rating</li><li>• AEC-Q200 rated</li><li>• RoHS 2011/65/EU compliant</li></ul> | <ul style="list-style-type: none"><li>• Compact footprint</li><li>• AEC-Q200 rated</li><li>• RoHS 2011/65/EU compliant</li></ul> | <ul style="list-style-type: none"><li>• Compact footprint</li><li>• High-temp tolerant</li><li>• RoHS 2011/65/EU compliant</li></ul> | <ul style="list-style-type: none"><li>• Compact footprint</li><li>• High-temp tolerant</li><li>• RoHS 2011/65/EU compliant</li></ul> |



# WHEN IT COMES TO GETTING MORE FROM YOUR MOTOR, THERE'S NO SUCH THING AS "TOO ACCURATE."

- Procurement and product-design leaders must always ask themselves tough questions about cost/value ratios.
- Our customers tell us the safety and performance advantages our resistors provide make us a smart, strategic choice.
- By focusing on quality, we offer you tighter tolerances and greater accuracy for long-term performance confidence.

## We work with you to get it right.

We have decades of experience in matching products to standard, and innovative, requirements. Whether we're sourcing and combining off-the-shelf solutions or working with your team to develop customized solutions, we stay with you.

## We work with you to get it there.

We have a robust and stress-proven global supply chain. Our service team is famous for "above and beyond" service, helping customers overcome sourcing and inventory challenges.

WHERE WILL IT MATTER MOST TO YOU?

### SAFETY

e.g. Pyro Fuse Threshold Monitoring

### EFFICIENCY

For flexibility and agility in sensing & switching

### PRECISION

For applications with the tightest tolerances



ISABELLENHÜTTE

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