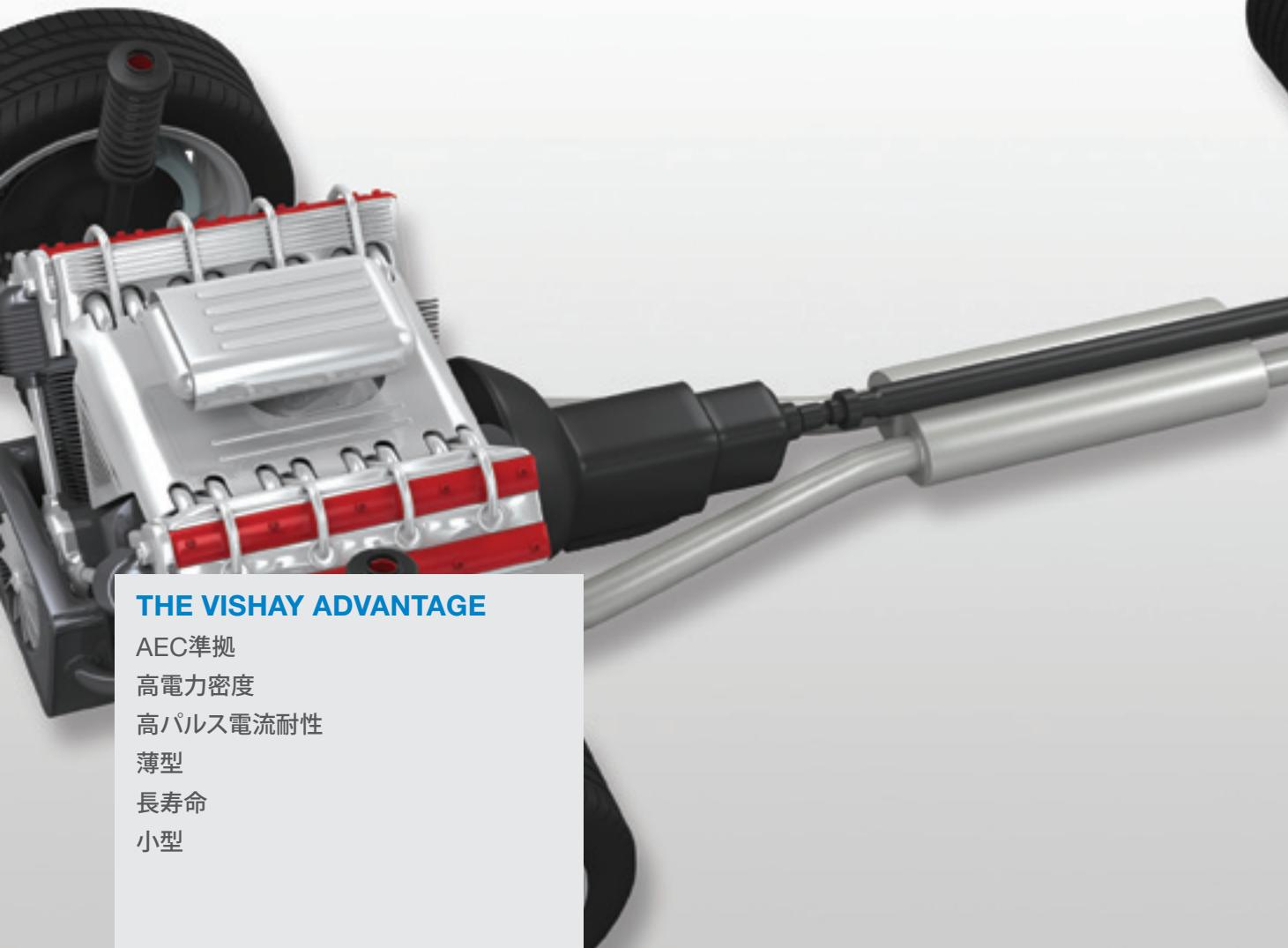




シャーシ制御





電気式パワーステアリング (BLDC モータードライブ)



<p>ALUMINUM CAPACITORS SMD Aluminum Capacitors, High Temperature Up to 150 °C, Low ESR</p> <p>260 CLA-V</p> <ul style="list-style-type: none"> High ripple current up to 1400 mA at 150 °C, capacitance up to 3300 µF Useful life up to 2000 h at 150 °C, high vibration capability 	<p>RESISTORS Thin Film Resistors, 4.7 Ω to 3.01 MΩ, 0402 to 1210 Case Sizes, 50 V to 200 V</p> <p>TNPW e3</p> <ul style="list-style-type: none"> Excellent stability $\Delta R/R \leq 0.05\%$ after 1000 h at 70 °C, 0402 to 1210 case sizes 	<p>MOSFETs N-Channel MOSFETs in 8 mm x 8 mm PowerPAK®, 40 V, 160 A, 1.2 mΩ</p> <p>SQJQ100EL</p> <ul style="list-style-type: none"> AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operation Ultra-low $R_{DS(on)}$, thermally enhanced PowerPAK® 8x8L replaces D²PAK in less than half of the area
<p>MOSFETs N-Channel MOSFETs as Known Good Die (KGD) Rated at 40 V, 0.72 mΩ</p> <p>SQC200N04-0m72KGD</p> <ul style="list-style-type: none"> AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operation Efficient KGD packaging allows high power density and reduced parasitics 	<p>RESISTORS Precision Thin Film Chip Resistor Arrays, Superior Moisture Resistivity</p> <p>ACAS0612 AT Precision</p> <ul style="list-style-type: none"> Resistance ratio up to 1:20, superior tracking stability over lifetime Relative TCR to ± 5 ppm/K (tracking), AEC-Q200 qualified, sulfur-resistant 	<p>RESISTORS Power Metal Strip® SMD Resistors, 4-Terminal, Low Value (Down to 0.0001 Ω)</p> <p>WSK1216</p> <ul style="list-style-type: none"> High power rating of 3 W to 5 W with TCR = 20 ppm/K Very low resistance values, 0.0001 Ω to 0.004 Ω, with tolerance of 1%
<p>OPTOELECTRONICS 3-Channel SMD Transmissive Sensors for "Turn and Push" Optical Encoding</p> <p>TCUT1630X01</p> <ul style="list-style-type: none"> Wide operating temperature range of -40 °C to +110 °C, 3 output channels Sensing of motion, speed, and direction; third channel for trigger signal 	<p>NON-LINEAR RESISTORS SMD Glass-Protected NTC Thermistors</p> <p>NTCS...e3</p> <ul style="list-style-type: none"> Standard series, AEC-Q200 compliant Glass-protected with soft terminations 	<p>INDUCTORS Shielded SMD Low-Profile, High-Current IHLP® Inductors, EMI Filters, 155 °C, Low DCR</p> <p>IHLP-6767GZ-5A</p> <ul style="list-style-type: none"> Very high-current and high-temperature operation for filters
<p>RESISTORS Power Metal Strip® SMD Resistors</p> <p>WSLP2726</p> <ul style="list-style-type: none"> Very high power (7 W) Resistance = 0.3 mΩ to 4 mΩ 	<p>INDUCTORS Shielded EMI Filters Up to 190 A I_{DCR}, 2.2 µH, Ultra-Low DCR (0.22 mΩ)</p> <p>IHXL-2000VZ-5A</p> <ul style="list-style-type: none"> Very high-current and high-temperature operation for filters and energy storage 	<p>CERAMIC CAPACITORS AEC-Q200 Qualified, Broad Range of Sizes and Working Voltages, C0G (NPO), X7R, and X8R</p> <p>VJ...31X RoHS Automotive MLCCs</p> <ul style="list-style-type: none"> RoHS and Green compliant parts available AgPd termination available for epoxy bonding



トランスマッショントransmission ECU、 ダブルクラッチBLDC



MOSFETs N-Channel MOSFETs as Known Good Die (KGD) Rated at 40 V, 0.72 mΩ SQC200N04-0m72KGD <ul style="list-style-type: none">AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operationEfficient KGD packaging allows high power density and reduced parasitics 	MOSFETs N-Channel MOSFETs in 5 mm x 6 mm PowerPAK® SO-8L Rated at 40 V, 3.0 mΩ SQJA46EP <ul style="list-style-type: none">AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operationThermally enhanced PowerPAK® SO-8L replaces DPAK in less than half of the area 	MOSFETs Dual N-Channel MOSFETs in 8 mm x 8 mm PowerPAK®, 40 V, 100 A, 3.4 mΩ SQJQ904E <ul style="list-style-type: none">AEC-Q101 qualified, 100 % UIS and RG tested with up to 175 °C operationHigh power density dual PowerPAK® 8x8L offers significant reduction in PCB area 
CERAMIC CAPACITORS AEC-Q200 Qualified, Broad Range of Sizes and Working Voltages, C0G (NPO), X7R, and X8R VJ...31X RoHS Automotive MLCCs <ul style="list-style-type: none">RoHS and Green compliant parts availableAgPd termination available for epoxy bonding 	RECTIFIERS High Current Density Surface-Mount Schottky Barrier Rectifiers SS3P4L <ul style="list-style-type: none">AEC-Q101 qualifiedVery low profile - typical height of 1.0 mm 	INDUCTORS Coupled Inductors for SEPIC Converter IHCL-3232DZ-5A <ul style="list-style-type: none">High-temperature operation up to 155 °CFrequency range up to 5.0 MHz 
DIODES 600 W, 6.8 V to 51 V SMD PAR® TVS Diodes TA6Fxx <ul style="list-style-type: none">T_j = 185 °CVery low profile - typical height of 0.95 mm 	RESISTORS Power Metal Strip® SMD Resistors, Wide Terminal, 1 mΩ to 30 mΩ, 2 W WSLP2010 <ul style="list-style-type: none">Very high power to footprint size ratio (2 W in 2010)Construction is impervious to high-sulfur environments 	RESISTORS SMD Thick Film Resistors, High Stability RCA0603 <ul style="list-style-type: none">TCR = 50 to 200 ppm/KSulfur-resistant 
NON-LINEAR RESISTORS SMD Glass-Protected NTC Thermistors NTCS...e3 <ul style="list-style-type: none">Standard series, AEC-Q200 compliantGlass-protected with soft terminations 	INDUCTORS Low-Profile, High-Current IHLP® Inductors IHLP-2525CZ-5A <ul style="list-style-type: none">Excellent high-temperature performance for DC/DC converter input and output filters 	RESISTORS Precision Gold Terminated Thin Film Chip Resistor Arrays for Conductive Gluing ACAS 0606 ATAU Precision <ul style="list-style-type: none">Glueable gold terminations, resistance ratio up to 1:20, tolerance ± 0.05 %AEC-Q200 qualified, extreme sulfur resistance, superior tracking stability 



Power Metal Strip® 抵抗器の特長

30 ppm/°C以下の低TCR、0.2 mΩまでの低いΩ値、厳しい許容差、高温性能

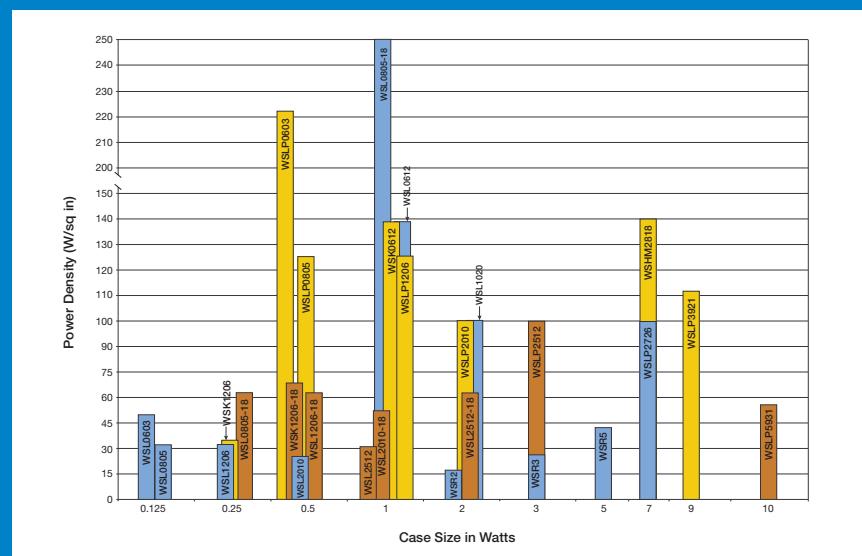
ビシエイ社のPower Metal Strip® 電流検出抵抗器は、高温用途での優れた性能、幅広いパッケージサイズ、0.0002 Ω ~ 1 Ωの抵抗値を兼ね備えます。特許取得済みの最先端デバイスは、巻線デバイスと同等の過負荷性能と30 ppm/°Cまでの低い抵抗温度係数を提供します。

電流検出Power Metal Strip抵抗器は、モニタリングが容易な電圧を電流に変換することで制御回路による回路の電流レベル監視を実現します。回路の電流フローに抵抗し、その測定値から制御回路が電圧降下を検出し、監視を可能にします。Power Metal Strip抵抗器の低い抵抗値がこの機能を高い効率で実現させます。

高電力密度(最大222 W/in², 34.4 W/cm²)

ビシエイ社のPower Metal Strip抵抗器は、WSL…-18, WSLP, WSR3, WSR5, WSHM2818タイプの“高電力”抵抗器に進化し、目的に応じた材料やプロセスにより10 Wまでの高定格電力を実現します。

WSL…-18, WSLP, WSR3, WSR5, WSHM2818タイプの抵抗器は、優れた電気的特性を維持しながら、高い電力／パッケージサイズ比を提供します。高定格電力により設計者は、製品を小さいボードで実現可能で、生産時間の短縮と原材料コストの削減に貢献します。



超高電力、表面実装Power Metal Strip 電流検出抵抗器

FEATURES

- 小型ケースサイズで高電力を提供: 最大10 W
- 極めて低い抵抗値: 0.0002 Ω ~ 1.0 Ω
- 厳しい抵抗許容差: ± 0.1 %まで



低い抵抗温度係数(TCR) (30 ppm/°Cまで)

Power Metal Strip抵抗器の低TCRは、自己発熱や、高温環境による抵抗値変化を最小限に抑えます。

下記の表は、標準100 ppm/°C metal strip、700 ppm/°C厚膜チップ抵抗器と比較した30 ppm/°C Power Metal Strip抵抗器の電圧を表しています。

