Metal Plate Power Shunts 140A, 4 Terminal

PSG4



For high current applications, KOA introduces two new series of 4 terminal current shunts.

Constructed using a solid metal alloy resistance element with copper terminations the device provides superior corrosion and heat resistance and has excellent pulse resistance.

These new shunt resistors are ideal for accurate high current sensing in automotive and industrial applications as well as in pulse applications.

PSG4, PSF4 Series



- PSG4: 2725 inch, 140 A 0.5 mΩ, 89 A 1 mΩ
 DSE4: 4040 in ch. 400 A = 0.5 mΩ, 54 A = 1 mΩ
- PSF4: 1216 inch, 100 A 0.5 mΩ, 54 A 1 mΩ
- Kelvin terminal construction
- ±50 ppm/K (+25 °C to +125 °C)
- Ultra-low resistance, suitable for large current detection
- Excellent long-term stability and pulse withstanding performance
- Robust copper terminations
- EU-RoHS compliant
- AEC-Q200 qualified

Ratings

| | Туре | Power Rating | T.C.R. (×10⁻⁶/K) | Resistance Range (\Omega) | Resistance Tolerance | Rated Terminal Part Temp. | Operating Temp. Range |
|-----|---------|--------------|---------------------|--------------------------------|-------------------------|------------------------------|------------------------------|
| | | 10W | ±50 | 0.5m | $F:\pm1\%$ | 75℃ | -65~+175℃ |
| | F304 21 | 23 8W | | 1m | | | |
| NEW | | 5W | + 50 | 0.5m | | 120°C | $-65 \times \pm 175^{\circ}$ |
| | | 3W | - 30 | 1m | F· ±170 | 130 C | -051750 |



Application Examples

- High current automotive applications (ECU, EPS, motor control, EV/HEV)
- DC/DC converter
- Inverter power supplies
- Frequency converters
- Intelligent power modules

For more information, please contact:

KOA Europe GmbH, Kaddenbusch 6, D-25578 Dägeling-Itzehoe, Germany Phone: +49 (0)4821 89890, E-Mail: <u>koa-europe@koaeurope.de</u>, Internet: <u>www.koaeurope.de</u>

Specification given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use. Contact our sales representatives before you use our products for applications including automotive, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.