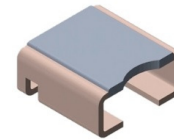
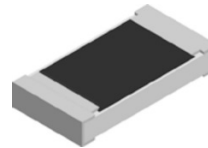
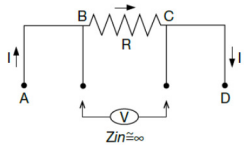


Technology	Form	Vishay Intertechnology			VPG Brands			Performance		
		Dale	Sternice	Milwaukee	VPG-Foils	VPG-Alpha	VPG - Powertron	Power (W)	Initial Tolerance (%)	TCR (ppm/°C)
Bulk Metal Foil	Flip-Chip					<input checked="" type="checkbox"/>		0.5 to 1.5	0.5	10
Thin Film	Surface Mount		<input checked="" type="checkbox"/>					0.125 to 2	1	50 to 300
Thick Film	Surface Mount	<input checked="" type="checkbox"/>						0.125 to 2	0.5 to 5	100 to 400
Bulk Metal Foil	Power Surface Mount					<input checked="" type="checkbox"/>		3	1	10
Wirewound	Trough Hole, Bare Element	<input checked="" type="checkbox"/>						1 to 5	1	100
Bulk Metal Foil	Surface Mount				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0.5 to 5	0.01 to 0.2	0.05 to 15
Bulk Metal Foil	Bare Metal Element						<input checked="" type="checkbox"/>	5	1	20
Thin Film	Wirebondable		<input checked="" type="checkbox"/>					0.5 to 6	1	50
Power Metal Strip	Surface Mount	<input checked="" type="checkbox"/>						1 to 10	0.5 to 1	15 to 400
Wirewound	Through Hole	<input checked="" type="checkbox"/>						1 to 15	1	50 to 300
Power Metal Strip	Module	<input checked="" type="checkbox"/>						36	5	225
Bulk Metal Foil	Module						<input checked="" type="checkbox"/>	80	0.1	30 to 50
Bulk Metal Foil	Through Hole				<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	2 to 10 350 to 2.5K	0.02 to 0.5	0.05 to 50
Steel Grid	Sub-Assembly			<input checked="" type="checkbox"/>				1K to 6.5K	10	930



ES Components offers a variety of current sensing and shunt resistors spanning a wide range of power dissipation (0.125W to 6.5kW), initial tolerances from $\pm 0.01\%$ to $\pm 10\%$ and TCR as low as $\pm 0.05\text{ppm}/^\circ\text{C}$ to meet your system's requirements.

Applications

- Military
- Medical
- Aerospace
- Force Balance Scales
- Electron Beam Systems
- Switching Power Supplies
- Electron Microscopes
- Gyro Navigation Systems
- Pressure Sensors
- Motor Speed Controls
- High Temperature Systems
- Weigh Scales



Vishay - Dale
Vishay - Sfernice
Vishay - Milwaukee



Technology

- Wirewound
- Thick Film
- Thin Film
- Bulk Metal Foil®
- Power Metal Strip
- Steel Grid

Form

- Through Hole
- Surface Mount (SMT)
- Module
- Power Surface Mount
- Sub-Assembly
- Wirebondable



GM SYSTEMS LLC
TOM TERLIZZI 516-807-9488
terlizzi@gmsystems.com