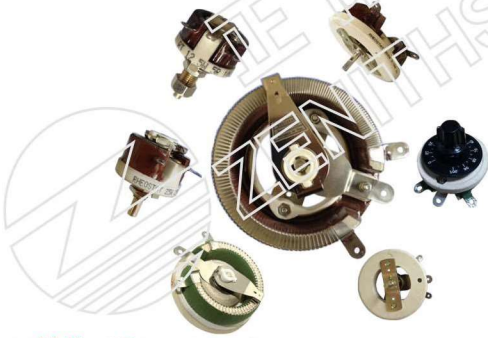


瓷盘可调电阻(Variable Wirewound Rheostat/Potentiometer)BC1 12.5W-3KW

瓷盘式可调电阻系列高端产品,外形美观,调节精确度高,可组合使用,非常方便!

Tray Type Variable Rheostat Series,High-end ,Pretty Appearance,High Adjustment Accuracy,Convenient in Combination & Usage



■ 结构 (Structure)

- BC1系列可调电阻是采用优质电阻合金丝缠绕在C型陶瓷圈上,除了滑动接触面外,整个电阻圈涂覆不燃性树脂漆,以防护绕线丝及更好的散热,待阴干后经过特殊电子粘接料,将绕线电阻圈固定在圆形底盘上,经过高温烘烤后再装配其他五金配件,并配装中心转动调整之零件,由转轴带动碳刷于电阻线上滑动变化,而获得需要之阻值。
BC1 series Variable Rheostat is wound with copper or chromium-alloy wire as a resistance element. Except for the slide contact surface, the entire component is coated with a high-temperature, non-flammable resin. After cooling and drying, insulation is applied through a high-temperature process. Then, a centered rotating adjuster component is installed, which slides along the resistance element and varies the resistance to the desired value.
- 一个电阻上可以采用不同的电阻绕线丝制成多个可调阻值。
Single unit with multiple winding resistance values is available.
- 根据客户需要可以改变陶瓷材质和提供旋钮
Different ceramic raw material & knobs, made-to-order rheostats available

■ 产品介绍(Introduction)

BC1系列可调电阻通常被称为变阻器或电位器,可作为变阻器的两个连接,或作为一个电位器,有三个连接端子。当一只电阻无法满足其功率时可以通过多只叠加的方式增大功率,最大可以增加至6只相连。

BC1 series Variable Rheostats called varistors or potentiometers, used as two connections terminals of varistors or as a potentiometer with three connection terminals. When single rheostat cannot meet its power, which can be increased by connection of multiple rheostats, max up to 6 connected rheostats.

■ 适用范围 (Application)

深圳市正阳兴电子的系列可调电阻生产周期为3-4周,适用范围: Production Time: 3-4 weeks. Widely used in the scope of the application includes:

- 搅拌机, 搅拌器, 风机, 和电动工具。
Mixer, mixer, fan, and electric tools.
- 马达控制器, 控制马达速度。
Motor controller to control motor speed.
- 测试仪器, 以提供数据准确性。
Test the instrument to provide data accuracy.
- 负载试验、负载设备、工业机械转速调节, 电压和电流调节仪表, 自动化控制装置等。
Load test, load equipment, speed regulation of industrial machinery, voltage and current regulation, instruments, automatic control devices, etc.

■ 产品尺寸图表12.5W-150W (Dimension Chart)

图一 (轴测图)

图二 (主视图)

图三 (俯视图)

型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	尺寸 Dimensions(mm)						净重(g) N.W	温度系数 T.C.R
				D±3	W±3	Φ±0.5	H±3	H1±3	M±0.5		
BC1	12.5W	0.5Ω-1KΩ	K(±10%) J(±5%)	22	27	1.5	38	23	3	25.00	±200PPM ~ ±400PPM
BC1	25W	0.5Ω-3.3KΩ		45	50	2	60	25	6	80.00	
BC1	50W	0.5Ω-3.3KΩ		65	70	4	65	25	6	170.00	
BC1	100W	1.5Ω-4.7KΩ		80	92	4	65	25	6	252.00	
BC1	150W	1.5Ω-5.1KΩ		105	120	4	70	30	6	480.00	

瓷盘电阻300W:净重(N.W) 1.20kg

图一 (轴测图)

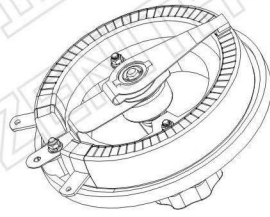
图二 (主视图)

图三 (俯视图)

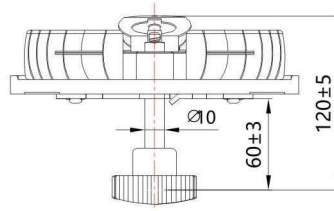
■ 产品尺寸图表500W (Dimension Chart)

瓷盘电阻500W:净重(N.W) 1.80kg

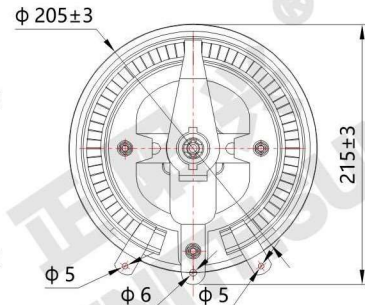
BC1 500W
单位: mm



图一 (轴测图)

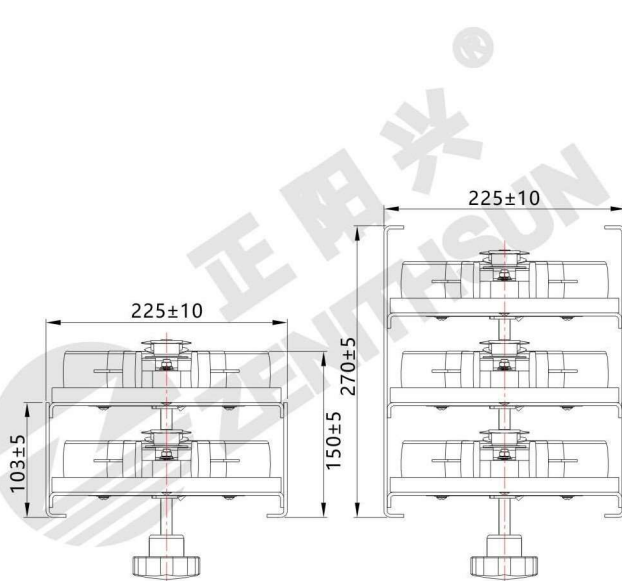


图二 (主视图)



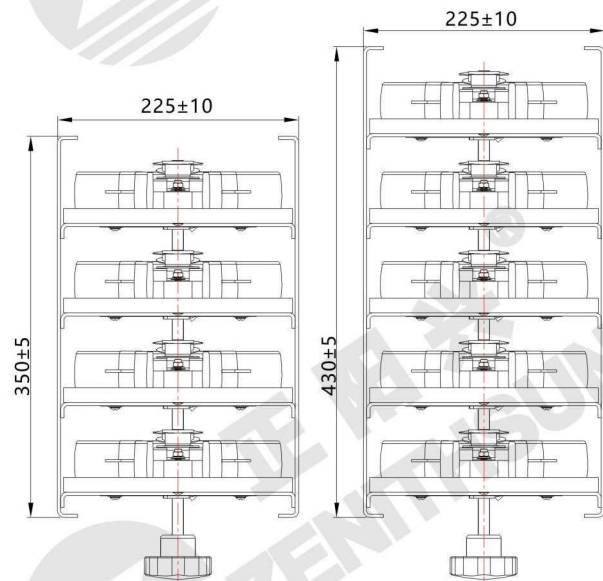
图三 (俯视图)

■ 组合式瓷盘可调电阻1000W-3000W (Demension Chart)



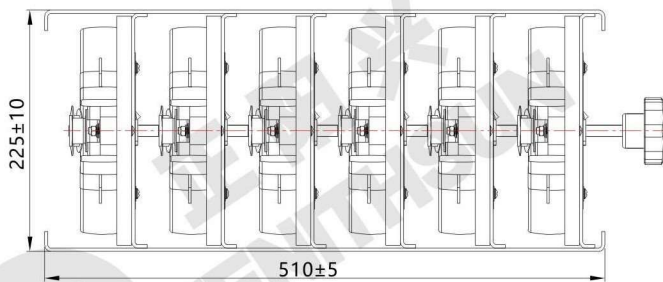
图一 (BC1 500Wx2联)

图二 (BC1 500Wx3联)



图三 (BC1 500Wx4联)

图四 (BC1 500Wx5联)



图五 (BC1 500Wx6联)

说明:
Note:

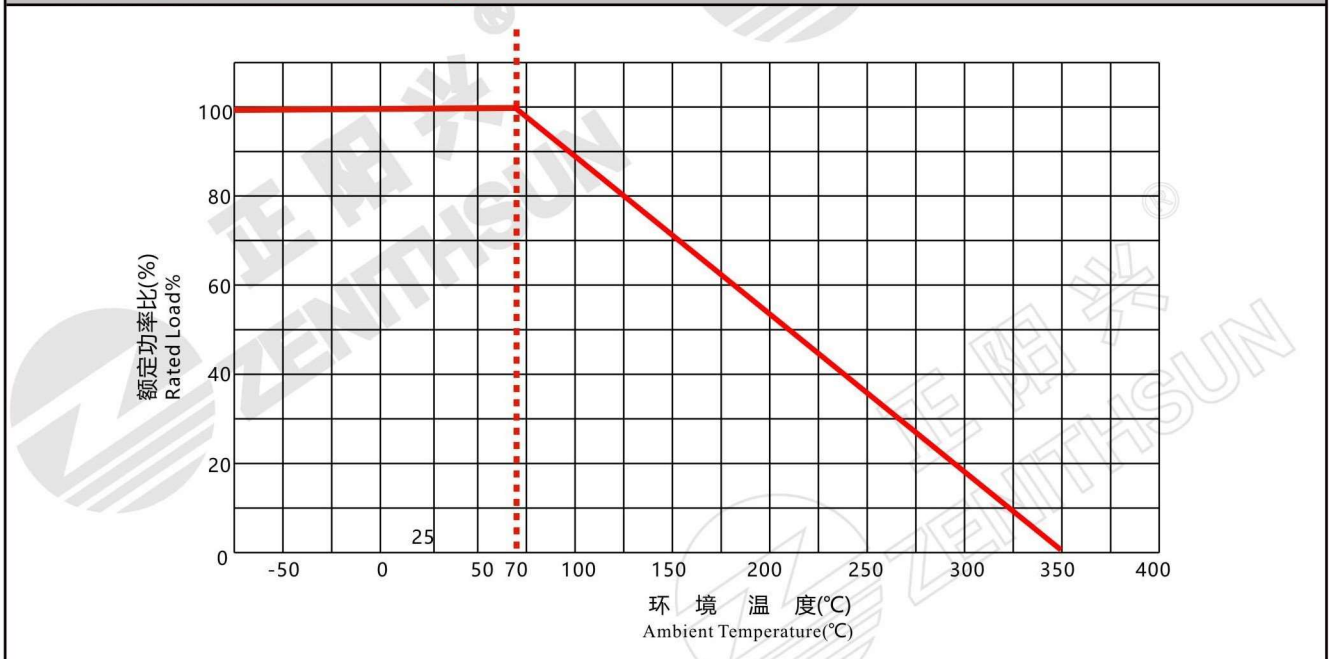
1. 单个电阻额定功率为 500W
Single Rheostat with Rated power 500W
2. 1000W(2个500W电阻串/并连接)
1000W(2pcs 500W Rheostats in series or parallel)
3. 1500W(3个500W电阻串/并连接)
1500W(3pcs 500W Rheostats in series or parallel)
4. 2000W(4个500W电阻串/并连接)
2000W(4pcs 500W Rheostats in series or parallel)
5. 2500W(5个500W电阻串/并连接)
2500W(5pcs 500W Rheostats in series or parallel)
6. 3000W(6个500W电阻串/并连接)
3000W(6pcs 500W Rheostats in series or parallel)
7. 加旋钮在底部
Black knob in the bottom

■ 定货示例 (How to order)

BC1	500W	20R	J
↓	↓	↓	↓
型号	功率	标称阻值	精度 (K:±10%,J: ±5%)
Type	Power	Nominal value	Tolerance(K:±10%,J: ±5%)

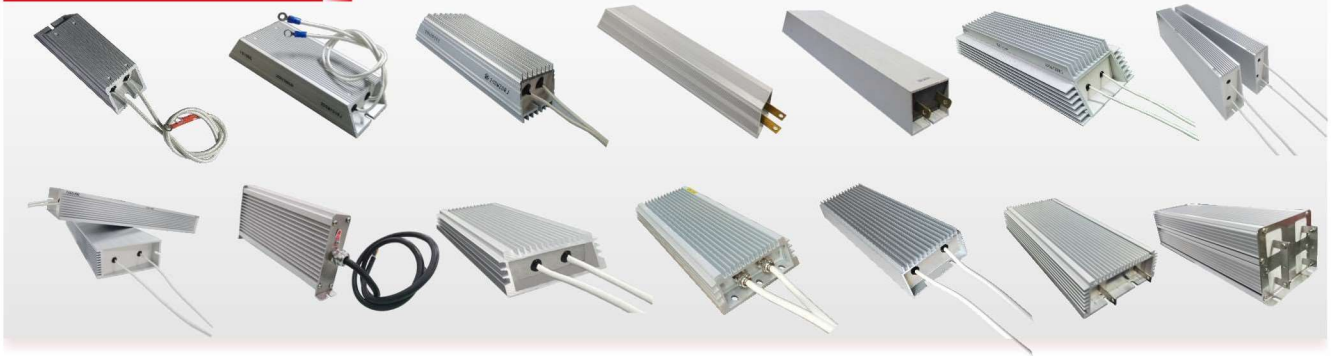
■ 绕线电阻性能实验参数 (Performance Characteristics)		
项目 Test	试验条件 Conditions of Test	性能要求 Testing Results
电阻值容许误差 Resistance Tolerance	测试电压≤3V,环境温度25°C Testing Voltage ≤3V, Ambient Temperature 25°C	F--G--J--K
温度系数 T.C.R	$\frac{R1-R0}{R0(T1-T0)} \times 10^6$ (PPM/°C) R0:常温(T0)下阻值 R0:Room Temperature(T0)Resistance R1:常温T0+100°C(T1)下阻值 R1:Room Temperature T0+100°C(T1)Resistance	±200PPM~ ±400PPM
额定负荷 Rated Load	40°C额定电压, 1小时 40°C, rated voltage, 1 hour	$\Delta R \leq \pm(3\%R + 0.1\Omega)$
短时间过负荷 Short Time Overload	5倍额定功率, 10秒钟; 10倍额定功率 5秒; 25倍额定功率 1秒 5 times rated power for 10s; 10 times rated power for 5s; 25 times rated power for 1s	$\Delta R \leq \pm(2\%R + 0.1\Omega)$
引出端对地绝缘耐压 Dielectric Withstand Voltage	1KV-10KV Vac 60秒,漏电流2.5mA 1KV-10KV Vac 60s, leakage current 2.5mA	$\Delta R \leq \pm(0.1\%R + 0.05\Omega)$
绝缘电阻值 Insulation Resistance	300VDC	≥100MΩ1Min
引出端强度 Terminal Tensile Strength	40N	无脱落 No off
耐振性 Vibration resistance	1.5mm,10-55-10Hz, 分别2小时 1.5mm,10-55-10Hz, each 2hours	无破损, 无脱落 No damage, No off
室温耐久性 Load Life	额定电压, 通电90分钟, 停30分钟, 共500小时 At rated voltage, 90 min "On", 30 min "Off", total 500hours	$\Delta R \leq \pm(3\%R + 0.1\Omega)$
耐低温试验 Low Temp. Resistance	产品在-55°C±2°C环境条件下储存16H后, 接入额定电压直流回路持续1秒 Store at -55°C±2°C for 16h, connect the rated voltage DC circuit for 1s	$\Delta R \leq \pm(1\%R + 0.1\Omega)$
耐高温试验 High Temp. Resistance	产品在70°C±2°C环境条件下储存16H后, 接入额定电压直流回路持续1秒 Store at 70°C±2°C for 16h, connect the rated voltage DC circuit for 1s	$\Delta R \leq \pm(1\%R + 0.1\Omega)$
不燃性 Non-flammability	10倍额定功率, 通电5分钟 10 times rated power, power on for 5Min	允许开路, 但不燃烧 Without combustion

■ 绕线电阻降功耗曲线图 (Derating Curve)

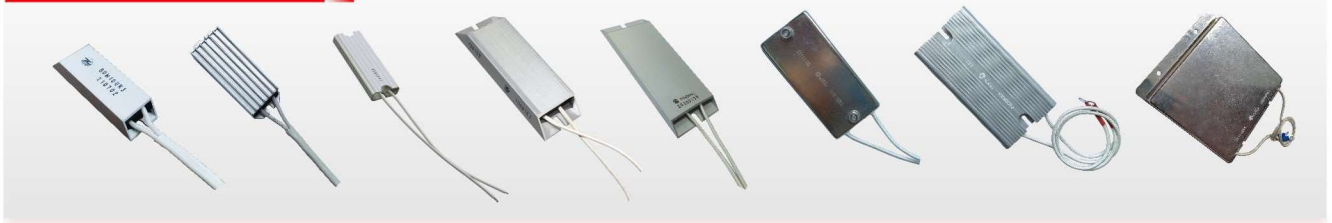


电阻产品体系图>>>

铝壳电阻ASZ



铝壳电阻ASCB



铝壳电阻RH/NH,ASC



高压电阻R180



电阻产品体系图>>>

厚膜电阻ZMP/RI82/RF82



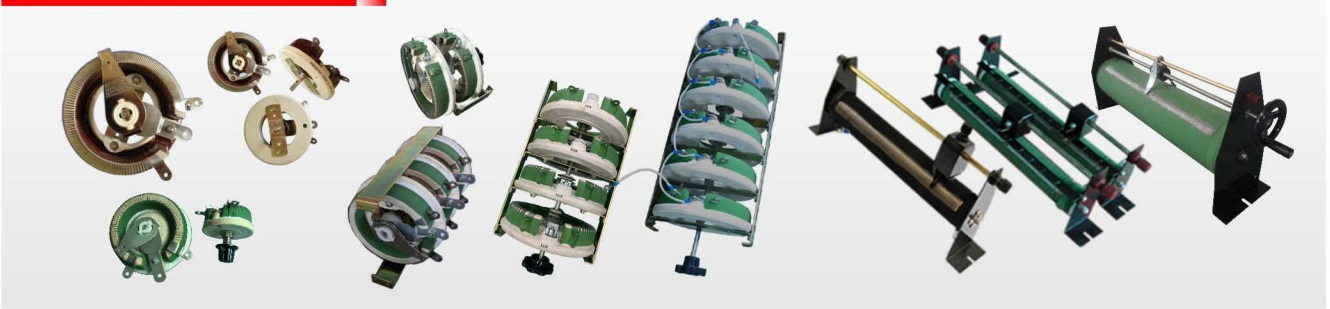
水冷电阻SLR



绕线电阻DDR/DNR、DQR/DQN、DSR、DRBY/DSBY

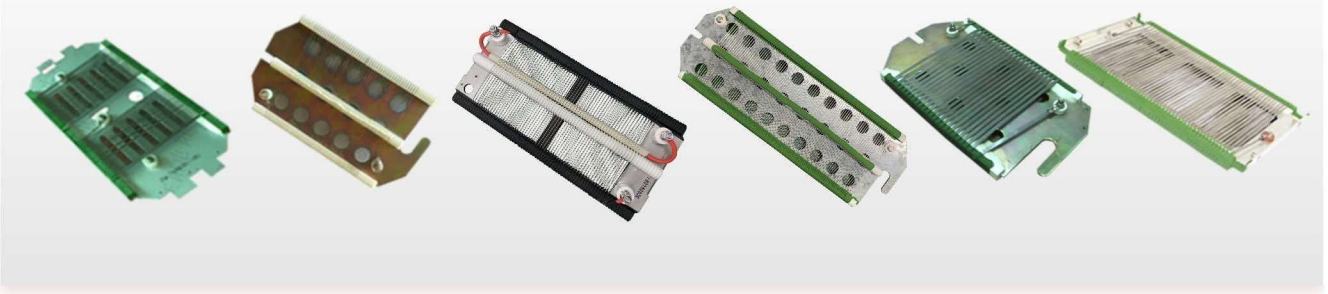


滑动电阻DSY、DST、BC1



电阻产品体系图>>>

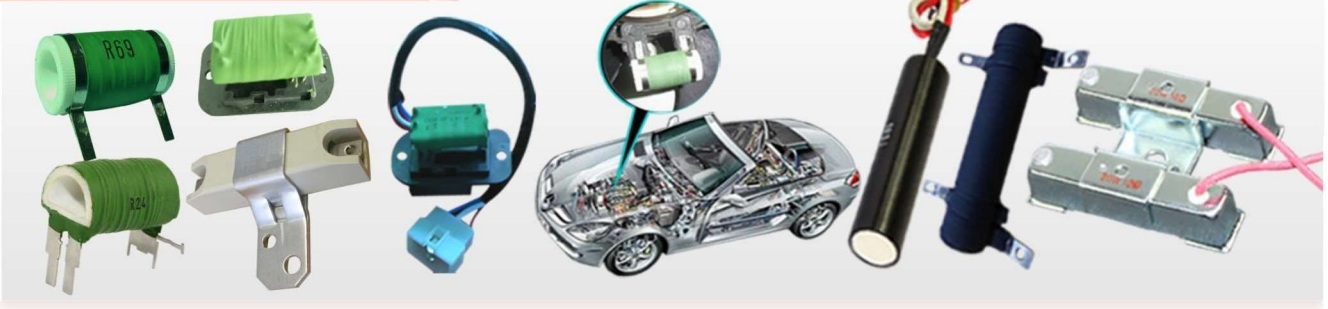
板型电阻ZB



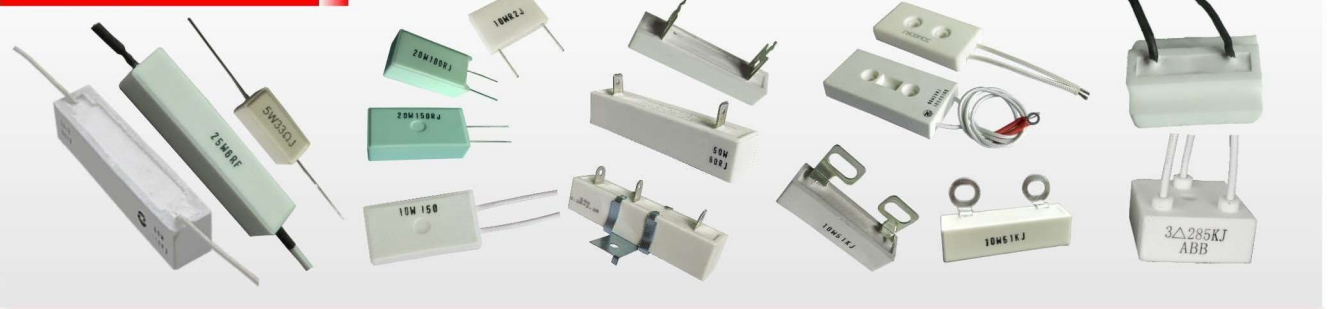
高能电阻HD



汽车电阻DQTS/摩托车电阻TWS

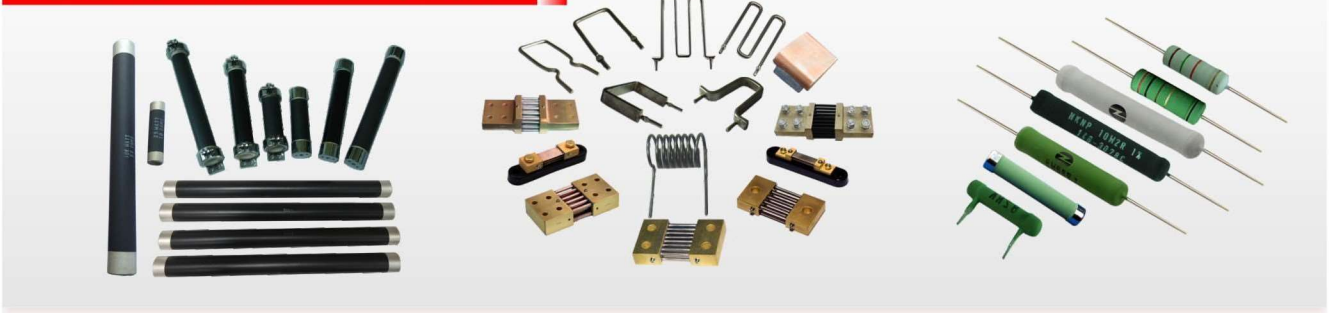


水泥电阻SR



电阻产品体系图>>>

碳膜高压电阻PC/分流器FL/瓷棒绕线电阻KN



无极可调电阻箱DSYB、DSTB、BC1B



不锈钢电阻BXG



风冷阻负载DRLB/水冷负载SRLB

