

高压电阻(High Voltage Resistors)RI80-RIZ 0.5W-20W

无感耐高压, 抗脉冲, 高压电路中的优选产品;
Non-Inductive, Resistance-high voltage, Anti-impulse, ideally suited for high voltage circuit application.
封装在变压油或者环氧树脂中使用效果最佳
Submerged in dielectric oil or epoxy resin for best use results.



■ 结构 (Structure)

1. 采用丝网印刷方式, 印刷层几十微米厚的电阻膜, 经高温烧结而成。基体为95%三氧化二铝陶瓷, 导热系数好, 机械强度高, 电阻膜层采用贵金属钌系浆料, 电性能稳定。
Screen printing, resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 95% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.

2. 工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结, 然后再经调阻、焊接、封装等工序制作而成。
Technological Process: electrode printing → electrode sintering → resistor printing → resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

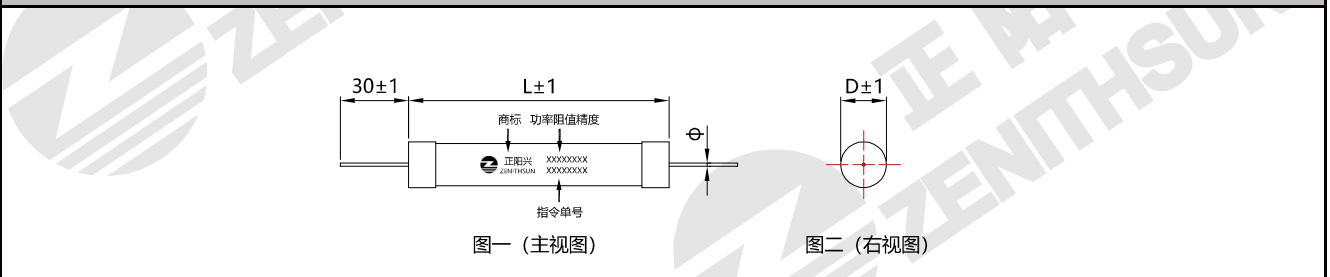
■ 特点(Features)

1. 能在连续的高电压环境下工作的电阻器。
Work under continuous high voltage environment .
2. 功率范围:0.5W-20W
Power Range:0.5W-20W
3. 具有无感、耐高压、小体积大功率、寿命长、耐潮湿、电性能稳定的特点。
Non-Inductive, Resistance-high voltage, small size, high power, long life, Moisture Resistance, High Stability.
4. 引出端采用引针式焊接。
Lead Material: copper, tin-plated

■ 适用范围 (Application)

深圳市正阳兴电子的系列高压电阻生产周期为2-3周, 高压电阻的应用场合相当广泛, 例如高压电力设备、医疗CT及X光机、高压测试设备、高压电源、真空设备、高压变频器、电压分压器、高压电路、电容器的泄放电路、高压缓冲电路、环保设备、静电除尘设备、电力系统、高压仪器仪表、脉冲调制器、显像设备、冲击电压发生器等, 凡是用高电压或者脉冲的领域, 高压电阻都适合。
Production Time : 2-3 weeks . Widely used in high voltage power equipment, medical CT and X-ray machines, high voltage testing equipment, high voltage power supply, vacuum equipment, high voltage frequency converter, voltage divider, high voltage circuit, capacitor discharge circuit, high voltage buffer circuit, environmental protection equipment, electrostatic dust removal equipment, power system, high voltage instruments and meters, pulse modulator, imaging equipment, impulse voltage generator, etc

■ 产品尺寸图表RI80-RIZ15-154 (Dimension Chart)



型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	尺寸 Dimensions(mm)			极限电压(KV) Max Voltage (KV)	净重(g) N.W	温度系数 T.C.R
RI80	0.5W	10Ω-500MΩ		D±1	L±1	Φ±0.5			
RIZ15	0.5W	10Ω-500MΩ		5	15	0.8	3	1.5	
RIZ20	2.5W	10Ω-500MΩ		8	20	1.0	4.8	3.9	
RIZ27	3.7W	10Ω-500MΩ		8	27	1.0	6.4	5.0	
RIZ32	4.5W	10Ω-500MΩ		8	32	1.0	8	5.8	
RIZ39	5.2W	20Ω-500MΩ		8	39	1.0	13	6.8	
RIZ52	7.5W	20Ω-500MΩ		8	52	1.0	16	8.7	
RIZ78	11W	20Ω-1GΩ		8	78	1.0	24	12.5	
RIZ103	12W	30Ω-1GΩ		8	103	1.0	32	16.2	
RIZ124	15W	40Ω-1GΩ		8	124	1.0	40	19.2	
RIZ154	20W	50Ω-1GΩ		8	154	1.0	48	24.1	

备注: 如有特殊要求或者参数超出以上标准可协商供货
Note: other on requests are available

■ 定货示例 (How to order)

RI80	11W	20M	J
↓	↓	↓	↓
型号	功率	标称阻值	精度 (K:±10%, J: ±5%, G:±2%, F:±1%)
Type	Power	Nominal value	Tolerance (K:±10%, J: ±5%, G:±2%, F:±1%)

高压电阻(High Voltage Resistors)RI80-RIP 4W-16W

高功率,无感耐高压,抗脉冲,高压电路中的优选产品;
High power,Non-Inductive,Resistance-high voltage ,Anti-impulse,ideally suited for high voltage circuit application.
封装在变压油或者环氧树脂中使用效果最佳
Submerged in dielectric oil or epoxy resin for best use results.



■ 结构 (Structure)

- 1.采用丝网印刷方式，印刷层几十微米厚的电阻膜，经高温烧结而成。基体为95%三氧化二铝陶瓷，导热系数好，机械强度高，电阻膜层采用贵金属钌系浆料，电性能稳定。
Screen printing, resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 95% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.
- 2.工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结，然后再经调阻、焊接、封装等工序制作而成。
Technological Process: electrode printing → electrode sintering → resistor printing → resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

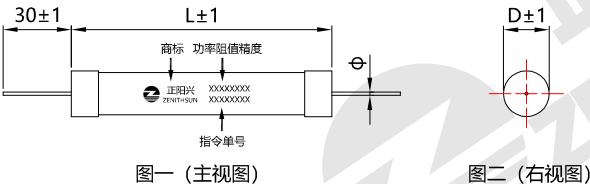
■ 特点(Features)

- 1.能在连续的高电压环境下工作的电阻器。
Work under continuous high voltage environment .
- 2.功率范围:4W-16W
Power Range:4W-16W
- 3.具有无感、耐高压、小体积大功率、寿命长、耐潮性好、电性能稳定的特点。
Non-Inductive,Resistance-high voltage,small size,high power,long life, Moisture Resistance, High Stability.
- 4.引出端采用引针式焊接。
Lead Material:copper,tin-plated

■ 适用范围 (Application)

深圳市正阳兴电子的系列高压电阻生产周期为2-3周，高压电阻的应用场合相当广泛,例如高压电力设备、医疗CT及X光机、高压测试设备、高压电源、真空设备、高压变频器、电压分压器、高压电路、电容器的泄放电路、高压缓冲电路、环保设备、静电除尘设备、电力系统、高压仪器仪表、脉冲调制器、显像设备、冲击电压发生器等，凡是用高电压或者脉冲的领域，高压电阻都适合。
Production Time : 2-3 weeks .Widely used in high voltage power equipment, medical CT and X-ray machines, high voltage testing equipment, high voltage power supply, vacuum equipment, high voltage frequency converter, voltage divider, high voltage circuit, capacitor discharge circuit,high voltage buffer circuit, environmental protection equipment, electrostatic dust removal equipment, power system, high voltage instruments and meters, pulse modulator,imaging equipment, impulse voltage generator, etc

■ 产品尺寸图表RI80-RIP20-78 (Dimension Chart)



型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	尺寸 Dimensions(mm)			极限电压(KV) Max Voltage (KV)	净重(g) N.W	温度系数 T.C.R
RIP20	4W	10Ω-500MΩ	K(±10 %) J(±5 %) G(±2 %) F(±1 %)	D±1	L±1	Φ±0.5	0.8	3.9	±50PPM ~ ±1000PPM
RIP27	6W	10Ω-500MΩ		8	20	1.0	2.0	5.0	
RIP32	8W	10Ω-500MΩ		8	27	1.0	4.5	5.8	
RIP39	10W	20Ω-500MΩ		8	32	1.0	4.5	6.8	
RIP52	12W	20Ω-500MΩ		8	39	1.0	6.0	8.7	
RIP78	16W	20Ω-1GΩ		8	52	1.0	7.0	12.5	

备注：如有特殊要求或者参数超出以上标准可协商供货
Note:other on requests are available

■ 定货示例 (How to order)

RIP78	16W	20M	J
↓	↓	↓	↓
型号	功率	标称阻值	精度 (K:±10%,J: ±5 % , G:±2 % , F:±1%)
Type	Power	Nominal value	Tolerance(K:±10%,J: ±5 % , G:±2 % , F:±1%)

高压电阻(High Voltage Resistors)RI80-RIT 0.8W-6W

高精度,无感耐高压,抗脉冲,高压电路中的优选产品;
High precision,Non-Inductive,Resistance-high voltage,Anti-impulse,ideally suited for high voltage circuit application.
封装在变压油或者环氧树脂中使用效果最佳
Submerged in dielectric oil or epoxy resin for best use results.



■ 结构 (Structure)

- 1.采用丝网印刷方式,印刷层几十微米厚的电阻膜,经高温烧结而成。基体为95%三氧化二铝陶瓷,导热系数好,机械强度高,电阻膜层采用贵金属钌系浆料,电性能稳定。
Screen printing, resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 95% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.
- 2.工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结,然后再经调阻、焊接、封装等工序制作而成。
Technological Process: electrode printing → electrode sintering → resistor printing → resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

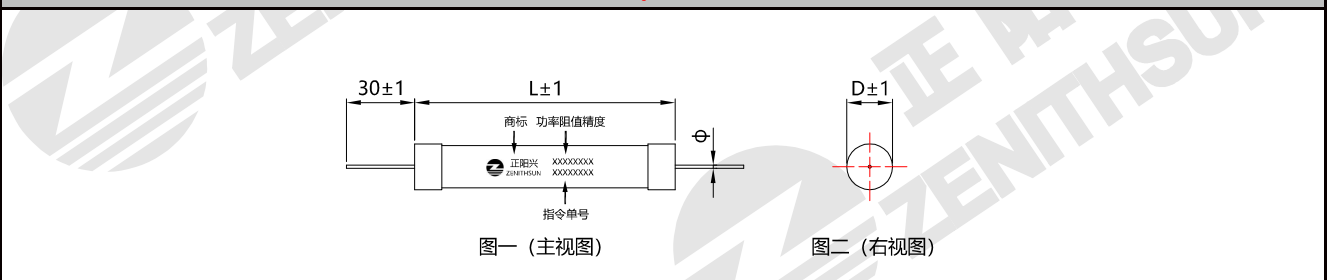
■ 特点(Features)

- 1.能在连续的高电压环境下工作的电阻器。
Work under continuous high voltage environment .
- 2.功率范围:0.8W-6W
Power Range:0.8W-6W
- 3.具有无感、耐高压、小体积大功率、寿命长、耐潮性好、电性能稳定的特点。
Non-Inductive,Resistance-high voltage,small size,high power,long life, Moisture Resistance, High Stability.
- 4.引出端采用引针式焊接。
Lead Material:copper,tin-plated

■ 适用范围 (Application)

深圳市正阳兴电子的系列高压电阻生产周期为2-3周,高压电阻的应用场合相当广泛,例如高压电力设备、医疗CT及X光机、高压测试设备、高压电源、真空设备、高压变频器、电压分压器、高压电路、电容器的泄放电路、高压缓冲电路、环保设备、静电除尘设备、电力系统、高压仪器仪表、脉冲调制器、显像设备、冲击电压发生器等,凡是用高电压或者脉冲的领域,高压电阻都适合。
Production Time : 2-3 weeks .Widely used in high voltage power equipment, medical CT and X-ray machines, high voltage testing equipment, high voltage power supply, vacuum equipment, high voltage frequency converter, voltage divider, high voltage circuit, capacitor discharge circuit,high voltage buffer circuit, environmental protection equipment, electrostatic dust removal equipment, power system, high voltage instruments and meters, pulse modulator,imaging equipment, impulse voltage generator, etc

■ 产品尺寸图表RI80-RIT20-154 (Dimension Chart)



型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	尺寸 Dimensions(mm)			极限电压(KV) Max Voltage (KV)	净重(g) N.W	温度系数 T.C.R
				D±1	L±1	Φ±0.5			
RIT20	0.8W	10Ω-500MΩ	F(±1%) D(±0.5%) C(±0.25%) B(±0.1%)	8	20	1.0	3	3.9	±50PPM ~ ±1000PPM
RIT27	1.0W	10Ω-500MΩ		8	27	1.0	4	5.0	
RIT32	1.2W	10Ω-500MΩ		8	32	1.0	5	5.8	
RIT39	1.5W	20Ω-500MΩ		8	39	1.0	8	6.8	
RIT52	2W	20Ω-500MΩ		8	52	1.0	10	8.7	
RIT78	3W	20Ω-1GΩ		8	78	1.0	15	12.5	
RIT103	4W	30Ω-1GΩ		8	103	1.0	20	16.2	
RIT124	5W	40Ω-1GΩ		8	124	1.0	25	19.2	
RIT154	6W	50Ω-1GΩ		8	154	1.0	30	24.1	

备注: 如有特殊要求或者参数超出以上标准可协商供货
Note:other on requests are available

■ 定货示例 (How to order)

RIT78	3W	20M	F
↓	↓	↓	↓
型号	功率	标称阻值	精度 (F:±1%,D: ±0.5% , C:±0.25% , B:±0.1%)
Type	Power	Nominal value	Tolerance(F:±1%,D: ±0.5% , C:±0.25% , B:±0.1%)

高压电阻(High Voltage Resistors)RI80-RHP 8W-300W

大功率,无感耐高压,抗脉冲,高压电路中的优选产品;
High power,Non-Inductive,Resistance-high voltage ,Anti-impulse,ideally suited for high voltage circuit application.
封装在变压油或者环氧树脂中使用效果最佳
Submerged in dielectric oil or epoxy resin for best use results.



■ 结构 (Structure)

- 1.采用丝网印刷方式,印刷层几十微米厚的电阻膜,经高温烧结而成。基体为95%三氧化二铝陶瓷,导热系数好,机械强度高,电阻膜层采用贵金属钌系浆料,电性能稳定。
Screen printing, resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 95% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.
- 2.工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结,然后再经调阻、焊接、封装等工序制作而成。
Technological Process: electrode printing → electrode sintering → resistor printing → resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

■ 特点(Features)

- 1.能在连续的高电压环境下工作的电阻器。
Work under continuous high voltage environment .
- 2.功率范围:8W-300W
Power Range:8W-300W
- 3.具有无感、耐高压、小体积大功率、寿命长、耐潮性好、电性能稳定的特点。
Non-Inductive,Resistance-high voltage,small size,high power,long life, Moisture Resistance, High Stability.
- 4.引出端采用内螺纹或外螺纹引出。
Leading Terminals : bolt /screw end caps

■ 适用范围 (Application)

深圳市正阳兴电子的系列高压电阻生产周期为2-3周,高压电阻的应用场合相当广泛,例如高压电力设备、医疗CT及X光机、高压测试设备、高压电源、真空设备、高压变频器、电压分压器、高压电路、电容器的泄放电路、高压缓冲电路、环保设备、静电除尘设备、电力系统、高压仪器仪表、脉冲调制器、显像设备、冲击电压发生器等,凡是用高电压或者脉冲的领域,高压电阻都适合。
Production Time : 2-3 weeks .Widely used in high voltage power equipment, medical CT and X-ray machines, high voltage testing equipment, high voltage power supply, vacuum equipment, high voltage frequency converter, voltage divider, high voltage circuit, capacitor discharge circuit,high voltage buffer circuit, environmental protection equipment, electrostatic dust removal equipment, power system, high voltage instruments and meters, pulse modulator,imaging equipment, impulse voltage generator, etc

■ 产品尺寸图表RI80-RHP8-300W (Dimension Chart)

TYPE:A L±1 商標 功率阻值精度 指令单号 6±1 Φ 图一 (主视图) 图二 (右视图) TYPE:B L±1 商標 功率阻值精度 指令单号 10±1 Φ 图一 (主视图) 图二 (右视图)
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TYPE:C

L±1

商標 功率阻值精度

指令单号

10±1

Φ

图一 (主视图) 图二 (右视图)

高压电阻(High Voltage Resistors)RI80-RHP30T 30W

大功率,无感耐高压,抗脉冲,特别适合于真空浇铸且对局部放电有要求的场合
High power,Non-Inductive,Resistance-high voltage ,Anti-impulse,ideally suited for high voltage circuit application.
封装在变压油或者环氧树脂中使用效果最佳
Submerged in dielectric oil or epoxy resin for best use results.



■ 结构 (Structure)

- 1.采用丝网印刷方式,印刷层几十微米厚的电阻膜,经高温烧结而成。基体为95%三氧化二铝陶瓷,导热系数好,机械强度高,电阻膜层采用贵金属钌系浆料,电性能稳定。
Screen printing, resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 95% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.
- 2.工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结,然后再经调阻、焊接、封装等工序制作而成。
Technological Process: electrode printing → electrode sintering → resistor printing → resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

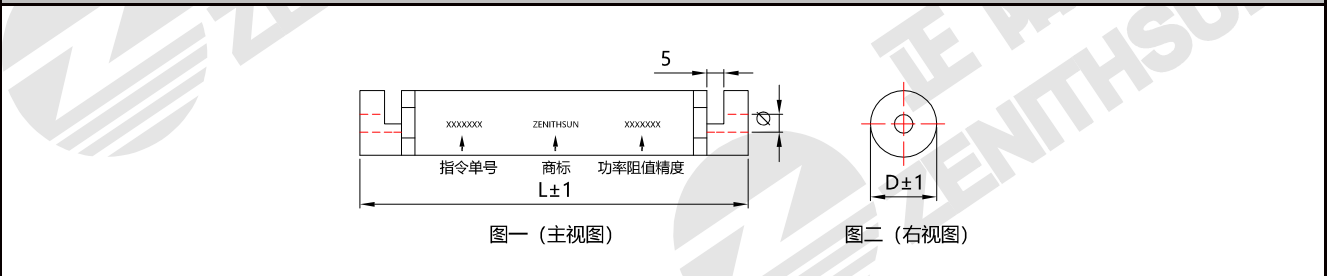
■ 特点(Features)

- 1.特别适合于真空浇铸且对局部放电有要求的场合。
Work under continuous high voltage environment .
- 2.功率等级:30W
Power Range:30W
- 3.具有无感、耐高压、小体积大功率、寿命长、耐潮性好、电性能稳定的特点。
Non-Inductive,Resistance-high voltage,small size,high power,long life, Moisture Resistance, High Stability.
- 4.引出端采用内螺纹引出。
Leading Terminals : screw end caps

■ 适用范围 (Application)

深圳市正阳兴电子的系列高压电阻生产周期为2-3周,高压电阻的应用场合相当广泛,例如高压电力设备、医疗CT及X光机、高压测试设备、高压电源、真空设备、高压变频器、电压分压器、高压电路、电容器的泄放电路、高压缓冲电路、环保设备、静电除尘设备、电力系统、高压仪器仪表、脉冲调制器、显像设备、冲击电压发生器等,凡是用高电压或者脉冲的领域,高压电阻都适合。
Production Time : 2-3 weeks .Widely used in high voltage power equipment, medical CT and X-ray machines, high voltage testing equipment, high voltage power supply, vacuum equipment, high voltage frequency converter, voltage divider, high voltage circuit, capacitor discharge circuit,high voltage buffer circuit, environmental protection equipment, electrostatic dust removal equipment, power system, high voltage instruments and meters, pulse modulator,imaging equipment, impulse voltage generator, etc

■ 产品尺寸图表RI80-RHP30T (Dimension Chart)



型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	尺寸 Dimensions(mm)			极限电压(KV) Max Voltage (KV)	净重(g) N.W	温度系数 T.C.R
				D±1	L±1	Φ±0.5			
RHP30T	30W	10Ω-500MΩ	K(±10 %) J (±5 %) G(±2 %) F (±1 %)	19	116	M6	30	100	±50PPM ~ ±1000PPM

备注: 如有特殊要求或者参数超出以上标准可协商供货
Note:other on requests are available

■ 定货示例 (How to order)

RHP30T	30W	20M	J
↓	↓	↓	↓
型号	功率	标称阻值	精度 (K:±10%,J: ±5%, G:±2%, F:±1%)
Type	Power	Nominal value	Tolerance(K:±10%,J: ±5%, G:±2%, F:±1%)

高压分压电阻(High Voltage Divider Resistors)RI80-RTF 3W-50W

高精度、低温度系数、精密型高端高压分压电阻；
High Precision,Low Temperature Coefficient,Precision High Voltage Divider.
封装在变压油或者环氧树脂中使用效果最佳
Submerged in dielectric oil or epoxy resin for best use results.



■ 结构 (Structure)

- 1.采用丝网印刷方式，印刷层几十微米厚的电阻膜，经高温烧结而成。基体为95%三氧化二铝陶瓷，导热系数好，机械强度高，电阻膜层采用贵金属钌系浆料，电性能稳定。
Screen printing, resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 95% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.
- 2.工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结，然后再经调阻、焊接、封装等工序制作而成。
Technological Process: electrode printing → electrode sintering → resistor printing → resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

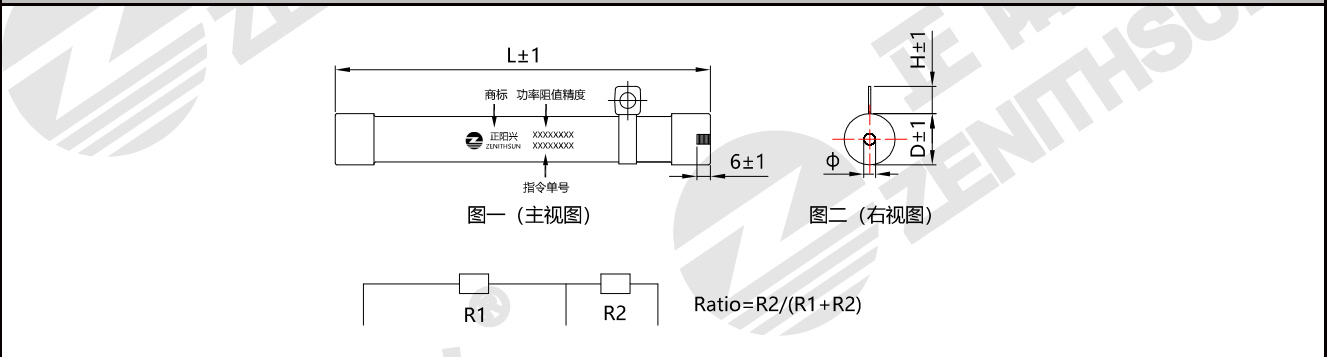
■ 特点(Features)

- 1.能在连续的高电压环境下工作的电阻器。
Work under continuous high voltage environment.
- 2.功率范围:3W-50W
Power Range:3W-50W
- 3.具有无感、耐高压、小体积大功率、寿命长、耐潮性好、电性能稳定的特点。
Non-Inductive,Resistance-high voltage,small size,high power,long life, Moisture Resistance, High Stability.
- 4.引出端采用内螺纹或外螺纹引出。
Leading Terminals : bolt /screw end caps

■ 适用范围 (Application)

深圳市正阳兴电子的系列高压电阻生产周期为2-3周，高压电阻的应用场合相当广泛,例如高压电力设备、医疗CT及X光机、高压测试设备、高压电源、真空设备、高压变频器、电压分压器、高压电路、电容器的泄放电路、高压缓冲电路、环保设备、静电除尘设备、电力系统、高压仪器仪表、脉冲调制器、显像设备、冲击电压发生器等，凡是用高电压或者脉冲的领域，高压电阻都适合。
Production Time : 2-3 weeks .Widely used in high voltage power equipment, medical CT and X-ray machines, high voltage testing equipment, high voltage power supply, vacuum equipment, high voltage frequency converter, voltage divider, high voltage circuit, capacitor discharge circuit,high voltage buffer circuit, environmental protection equipment, electrostatic dust removal equipment, power system, high voltage instruments and meters, pulse modulator,imaging equipment, impulse voltage generator, etc

■ 产品尺寸图表RI80-RTF (Dimension Chart)



型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	尺寸 Dimensions(mm)				极限电压(KV) Max Voltage (KV)	分压比例 Dividing Ratio	净重(g) N.W	温度系数 T.C.R
				D±1	L±1	Φ±0.5	H±2				
RTF	3W	10KΩ-500MΩ	绝对精度 Absolute Precision: ±0.5% ~ ±5%	8	86.5	M4	7	10	1:1000	20	±50PPM
RTF	10W	10KΩ-500MΩ		14.5	156	M4	10	40	1:2000	60	
RTF	50W	10KΩ-500MΩ	相对精度 Relative Accuracy: ±0.1% ~ ±0.5%	33	310	M6	10	80	1:4000	500	±250PPM
									1:5000		

备注：如有特殊要求或者参数超出以上标准可协商供货
Note:other on requests are available

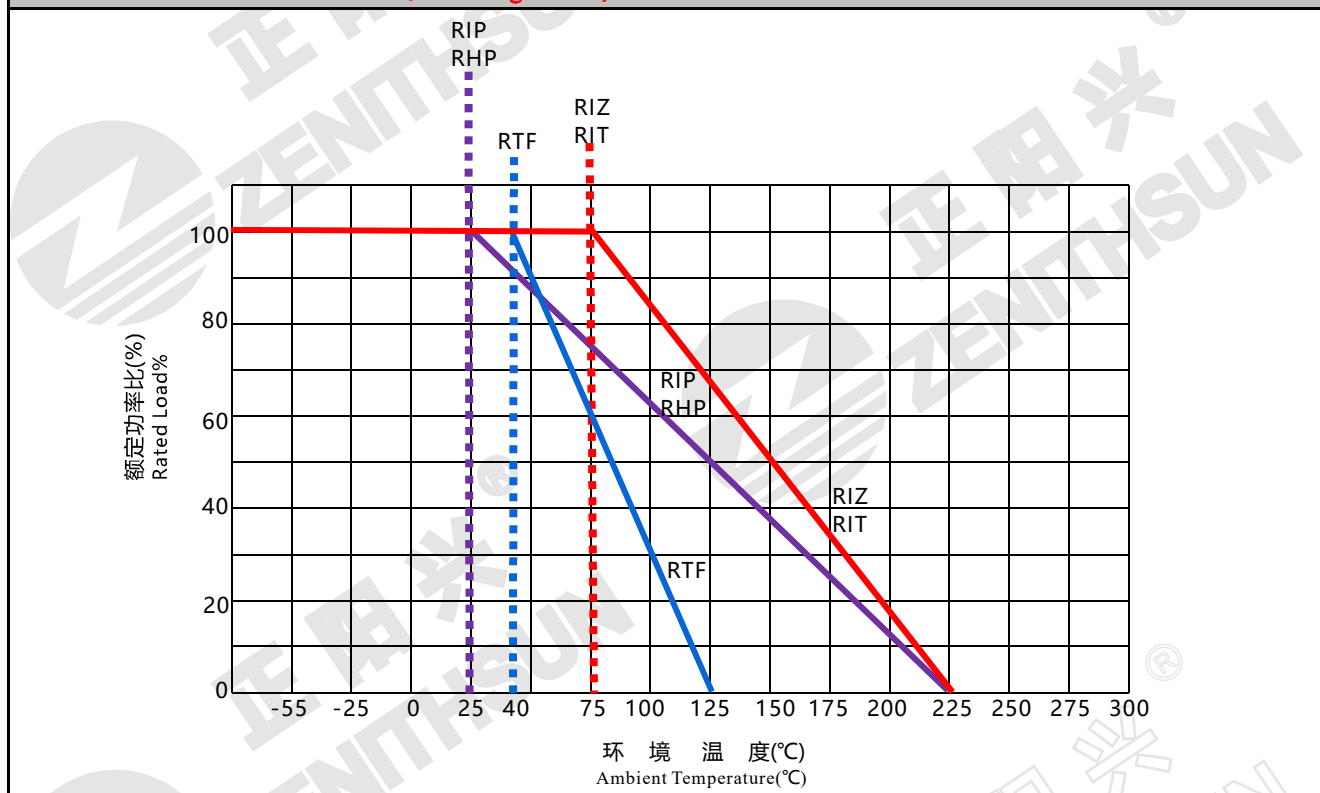
■ 定货示例 (How to order)

RTF ↓ 型号 Type	50W ↓ 功率 Power	20M ↓ 标称阻值 Nominal value	F ↓ 精度 (F:±1%,D: ±0.5% , B:±0.1%) Tolerance(F:±1%,D: ±0.5% , B:±0.1%)
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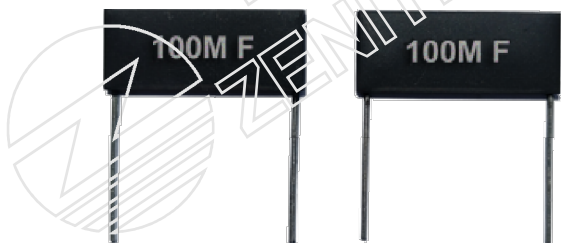
■ 高压电阻RI80性能实验参数 (Performance Characteristics)

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℃ Testing Voltage ≤3V,Ambient Temperature 25℃	B--C--D---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	±50PPM~ ±1000PPM
短时间过负荷 Short Time Overload	5倍额定功率, 但不超过最大连续工作电压的1.5倍5秒钟 5 times rated power for 5 seconds,but not over 1.5 times continous Umax	$\Delta R \leq \pm(0.2\%R+0.1\Omega)$
绝缘电阻值 Insulation Resistance	1000VDC	≥10GΩ1Min
室温耐久性 Load Life	额定电压, 通电90分钟, 停30分钟, 共1000小时 At rated voltage,90 min "On",30 min "Off",total 1000hours	$\Delta R \leq \pm(0.5\%R+0.1\Omega)$
耐湿性 Humidity Resistance	温度: 40±2℃ 湿度: 90%-95%.240小时 Temp:40±2℃ Humidity:90%-95%.240hours	$\Delta R \leq \pm(0.4\%R+0.1\Omega)$
耐高低温试验 High /Low Temp.	产品在 -55℃~155℃环境条件下储存2H, 5次循环 Store at -55℃~155℃ for 2H,cycle for 5 times	$\Delta R \leq \pm(0.2\%R+0.1\Omega)$
工作环境温度 Operating Temperature	-55℃~225℃	/

■ 高压电阻RI80降功耗曲线图 (Derating Curve)

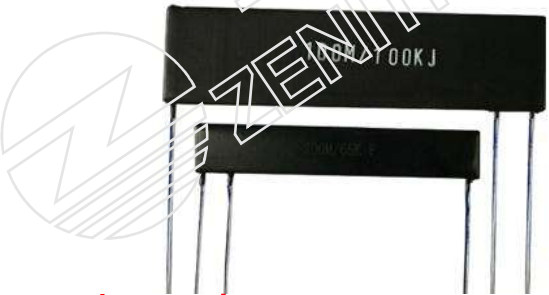


Submerged in dielectric oil or epoxy resin for best use results.



高压分压电阻(High Voltage Divider Resistors)RI80-RF82 1/4W-5W

高精度、低温度系数、精密型高端高压分压电阻；
Precision, Non-Inductive, Low Temperature Coefficient；
封装在变压油或者环氧树脂中使用效果最佳
Submerged in dielectric oil or epoxy resin for best use results.



■ 结构 (Structure)

1.采用丝网印刷方式，印刷层几十微米厚的电阻膜，经高温烧结而成。基体为96%三氧化二铝陶瓷，导热系数好，机械强度高，电阻膜层采用贵金属钌系浆料，电性能稳定。

Screen printing, resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 96% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.

2.工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结，然后再经调阻、焊接、封装等工序制作而成。

Technological Process: electrode printing → electrode sintering → resistor printing → resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

■ 特点(Features)

1.能在连续的高电压环境下工作的电阻器，一般是封装在变压油或者环氧树脂中使用。

Work under continuous high voltage environment .

2.功率等级:1/4W-5W

Power Range:1/4W-5W

3.具有无感、耐高压、小体积大功率、寿命长、耐潮湿性好、电性能稳定。

Non-Inductive,Resistance-high voltage,small size,high power,long life, Moisture Resistance, High Stability.

4.引出端采用引针式引出。

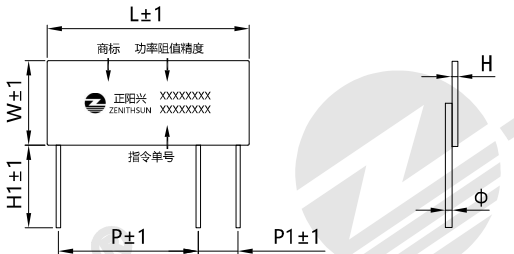
Lead Material:copper,tin-plated

■ 适用范围 (Application)

深圳市正阳兴电子的系列高压电阻生产周期为2-3周，高压电阻的应用场合相当广泛,例如高压电力设备、医疗CT及X光机、高压测试设备、高压电源、真空设备、高压变频器、电压分压器、高压电路、电容器的泄放电路、高压缓冲电路、环保设备、静电除尘设备、电力系统、高压仪器仪表、脉冲调制器、显像设备、冲击电压发生器等，凡是用高电压或者脉冲的领域，高压电阻都适合。

Production Time : 2-3 weeks .Widely used in high voltage power equipment, medical CT and X-ray machines, high voltage testing equipment, high voltage power supply, vacuum equipment, high voltage frequency converter, voltage divider, high voltage circuit, capacitor discharge circuit,high voltage buffer circuit, environmental protection equipment, electrostatic dust removal equipment, power system, high voltage instruments and meters, pulse modulator,imaging equipment, impulse voltage generator, etc

■ 产品尺寸图表RF82 (Dimension Chart)



型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	尺寸 Dimensions(mm)							极限电压(KV) Max Voltage (KV)	净重(g) N.W	温度系数 T.C.R
				L±1	W±1	H±0.5	P±1	P1±1	H1±2	Φ±0.2			
RF82	1/4W	10Ω-500MΩ	K(±10%)	25	5	2	18.6	4	20	0.6	10	0.6	±50PPM
RF82	1/2W	10Ω-500MΩ		35	5	2	27	5	20	0.6	15	0.9	
RF82	1W	10Ω-500MΩ	J(±5%)	30	8	2	21	6	20	0.6	15	1.1	±1000PPM
RF82	2W	20Ω-500MΩ	G(±2%)	45	10	3	36	6	20	0.8	20	2.0	
RF82	3W	20Ω-500MΩ	F(±1%)	60	10	3	51	8	20	0.8	25	3.0	
RF82	5W	30Ω-500MΩ		80	20	4	66.5	10	20	1.0	30	8.0	

备注：如有特殊要求或者参数超出以上标准可协商供货
Note:other on requests are available

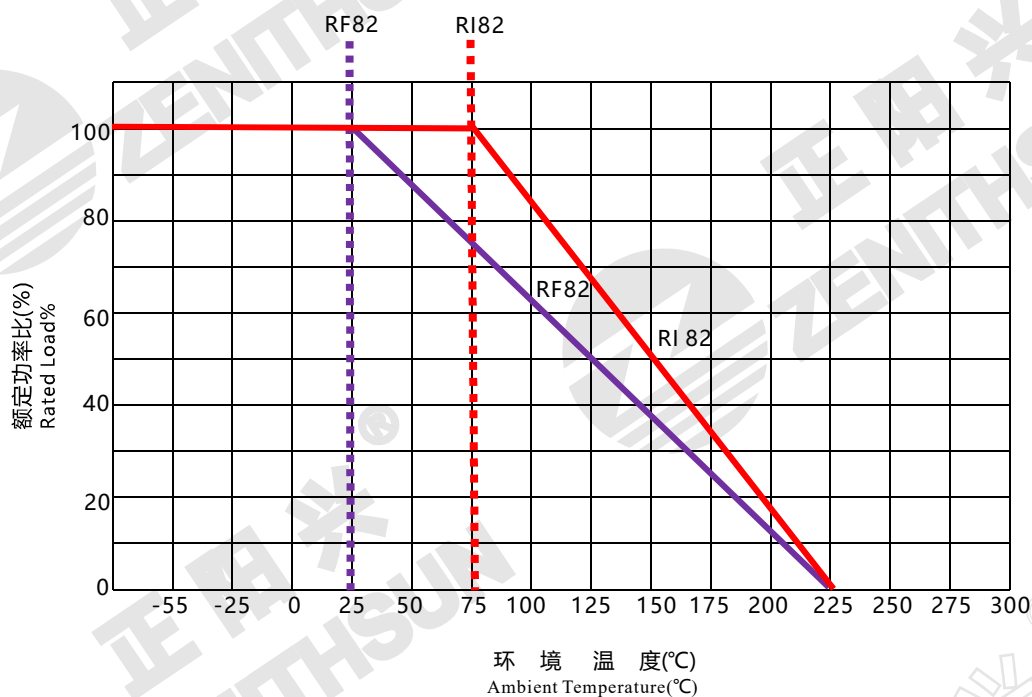
■ 定货示例 (How to order)

RF82	2W	20M	绝对精度F/相对精度D
↓	↓	↓	↓
型号 Type	功率 Power	标称阻值 Nominal value	精度 (K:±10%,J: ±5% , G:±2% , F:±1%) Tolerance(K:±10%,J: ±5% , G:±2% , F:±1%)

■ 高压电阻RI82/RF82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℃ Testing Voltage ≤3V, Ambient Temperature 25℃	B--C--D---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℃(T1)下阻值 R1:Room Temperature T0+100℃(T1)Resistance	±50PPM~ ±1000PPM
短时间过负荷 Short Time Overload	5倍额定功率, 但不超过最大连续工作电压的1.5倍5秒钟 5 times rated power for 5 seconds, but not over 1.5 times continuous Umax	$\Delta R \leq \pm(0.2\%R + 0.1\Omega)$
绝缘电阻值 Insulation Resistance	1000VDC	≥10GΩ1Min
室温耐久性 Load Life	额定电压, 通电90分钟, 停30分钟, 共1000小时 At rated voltage, 90 min "On", 30 min "Off", total 1000hours	$\Delta R \leq \pm(0.5\%R + 0.1\Omega)$
耐湿性 Humidity Resistance	温度: 40±2℃ 湿度: 90%-95%, 240小时 Temp: 40±2℃ Humidity: 90%-95% 240hours	$\Delta R \leq \pm(0.4\%R + 0.1\Omega)$
耐高低温试验 High/Low Temp.	产品在-55℃~155℃环境条件下储存2H, 5次循环 Store at -55℃~155℃ for 2H, cycle for 5 times	$\Delta R \leq \pm(0.2\%R + 0.1\Omega)$
工作环境温度 Operating Temperature	-55℃~225℃	/

■ 高压电阻RI82/RF82降功耗曲线图 (Derating Curve)



无感厚膜电阻(Non-inductive Thick Film Resistor)ZMP 250W-800W

无感耐高压,大功率,小体积,大大节省安装空间,需安装在水冷散热器上使用效果最佳
Non-inductive,High power ,Small size,Easy mounting,recommendations for mounting onto a water-cooled heatsink



■ 结构 (Structure)

- 1.采用丝网印刷方式，印刷层几十微米厚的电阻膜，经高温烧结而成。基体为96%三氧化二铝陶瓷，导热系数好，机械强度高，电阻膜层采用贵金属钌系浆料，电性能稳定。
Screen printing, resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 96% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.
- 2.工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结，然后再经调阻、焊接、封装等工序制作而成。
Technological Process: electrode printing → electrode sintering → resistor printing → resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

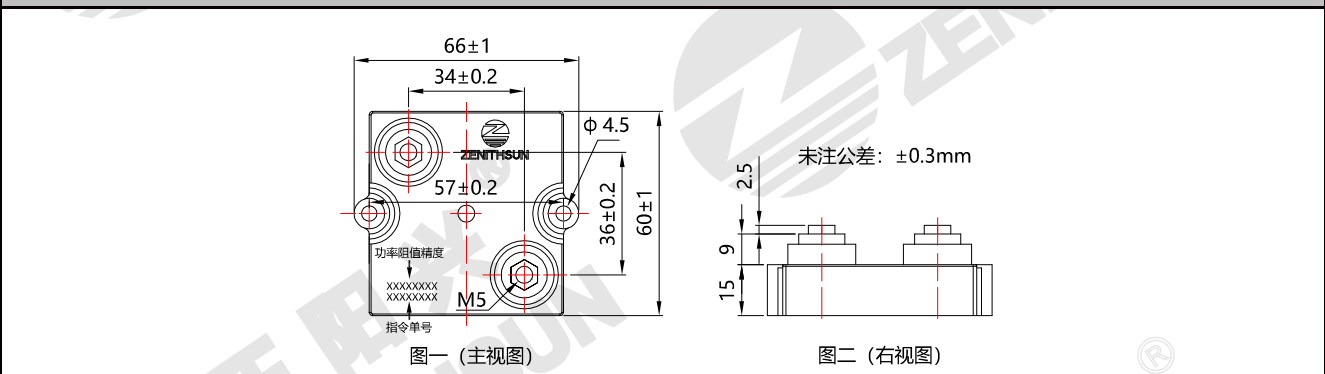
■ 特点(Features)

- 1.无感厚膜电阻一般都是贴在系统散热器上的，以增强电阻器的散热。这里由于是电阻器底板贴合在系统散热器上，电阻器通过底板和散热器之间的热交换而把热量散出去，这里的环境温度指的是电阻器的底板温度，一般以底板中心的温度为参考。
Recommendations for mounting onto a heatsink to enhance the heat dissipation. The bottom case is attached to the system heatsink, and the resistor dissipates the heat through the heat exchange between the bottom case and the heatsink. The ambient temperature here refers to the bottom case temperature of the resistor, which is generally referred to as the temperature in the center of the bottom case.
- 2.功率等级:250W-800W
Power Range:250W-800W
- 3.具有无感、耐高压、小体积大功率、寿命长、耐潮湿好、电性能稳定。
Non-Inductive,Resistance-high voltage,small size,high power,long life, Moisture Resistance ,High Stability.
- 4.引出端采用M5螺柱引出。
Connection screw thread M5(Standard M5,M4 on request) ;

■ 适用范围 (Application)

深圳市正阳兴电子的系列厚膜电阻生产周期为2-3周，厚膜电阻的应用场合相当广泛,例如变速驱动器、供电、控制设备、通讯、自动控制、发动机控制，电力电子，医疗器械，电力传输，电容均压，电容泄放，功率负载，汽车电子，感应加热，电源设备，电气传动，无功补偿，RC吸收泄放，等电力电子行业。风力发电，光伏发电等新能源领域。
Production Time : 2-3 weeks .Widely used in Variable speed drive, power supply, control equipment, communication, automatic control, engine control, power electronics, medical devices,power transmission, capacitor voltage equalization, capacitor discharge,power load, automotive electronics, induction heating, power supply equipment,electrical transmission, reactive power compensation, RC absorption and discharge, and other power electronics industries. Wind power generation, photovoltaic power generation and other new energy fields.

■ 产品尺寸图表ZMP250W-800W (Dimension Chart)



型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	引出端 Contacts	电阻安装 Mounting	电感 Inductance	绝缘耐压 (KV) Insulation Voltage	净重(g) N.W	温度系数 T.C.R
ZMP	250W	0.5Ω-1MΩ	K(±10 %)	M5	M4	无感 (N)	6-10KVdc	120	±50PPM ~ ±250PPM
ZMP	300W	0.5Ω-1MΩ	J (±5 %)	M5	M4	无感 (N)	6-10KVdc	120	
ZMP	600W	0.5Ω-1MΩ	G(±2 %)	M5	M4	无感 (N)	6-10KVdc	120	
ZMP	800W	0.5Ω-1MΩ	F (±1 %)	M5	M4	无感 (N)	6-10KVdc	120	

备注：如有特殊要求或者参数超出以上标准可协商供货
Note:other on requests are available

■ 定货示例 (How to order)

ZMP	600W	20M	J
↓	↓	↓	↓
型号	功率	标称阻值	精度 (K:±10%,J: ±5% , G:±2% , F:±1%)
Type	Power	Nominal value	Tolerance(K:±10%,J: ±5% , G:±2% , F:±1%)

无感厚膜电阻(Non-inductive Thick Film Resistor)ZMP 200W

无感耐高压,大功率,小体积,大大节省安装空间,需安装在散热器上使用效果最佳
Non-inductive,High power ,Small size,Easy mounting, recommendations for mounting onto a heatsink.



■ 结构 (Structure)

- 1.采用丝网印刷方式,印刷层几十微米厚的电阻膜,经高温烧结而成。基体为96%三氧化二铝陶瓷,导热系数好,机械强度高,电阻膜层采用贵金属钌系浆料,电性能稳定。
Screen printing, resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 96% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.
- 2.工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结,然后再经调阻、焊接、封装等工序制作而成。
Technological Process: electrode printing → electrode sintering → resistor printing → resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

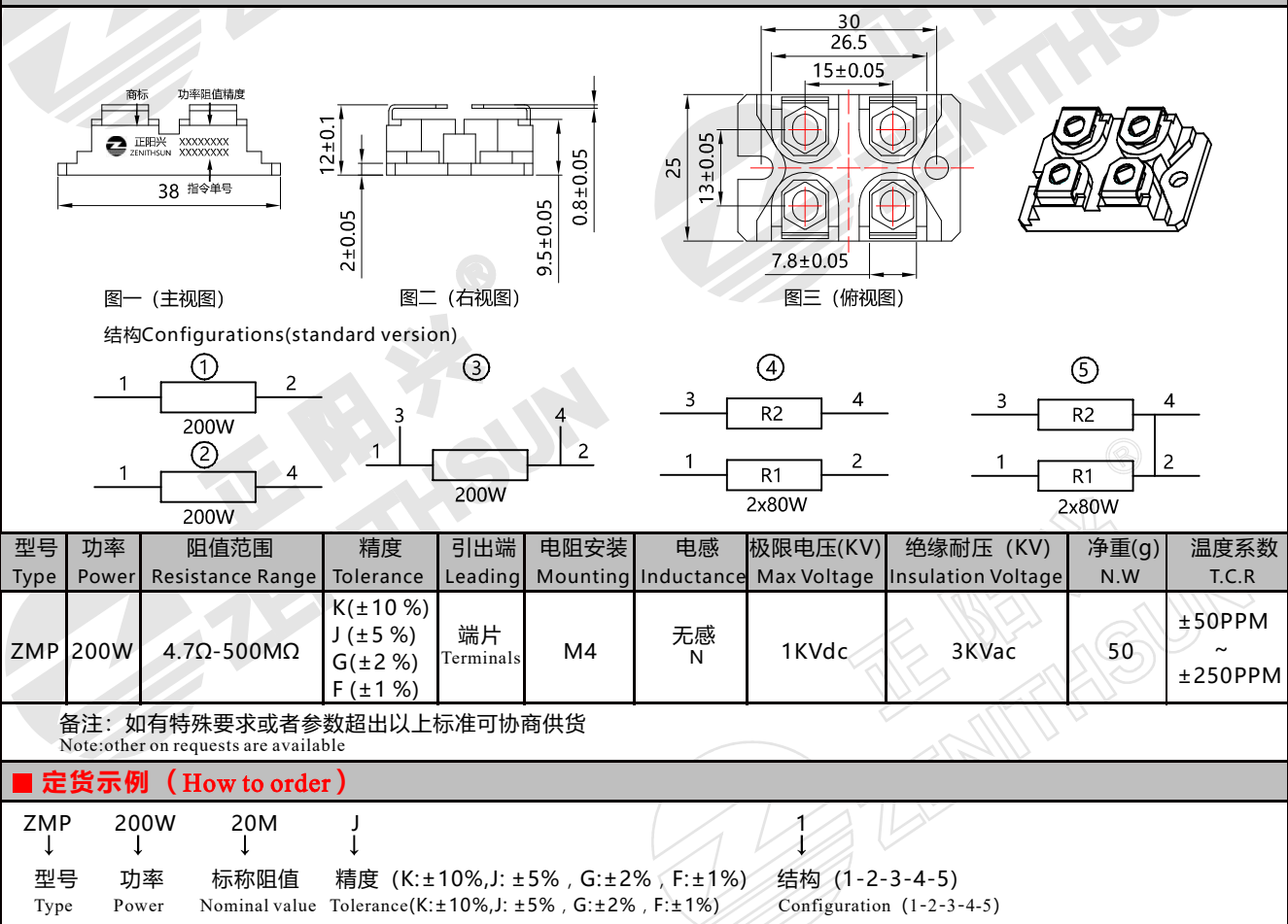
■ 特点(Features)

- 1.无感厚膜电阻一般都是贴在系统散热器上的,以增强电阻器的散热。这里由于是电阻器底板贴合在系统散热器上,电阻器通过底板和散热器之间的热交换而把热量散出去,这里的环境温度指的是电阻器的底板温度,一般以底板中心的温度为参考。
Recommendations for mounting onto a heatsink to enhance the heat dissipation. The bottom case is attached to the system heatsink, and the resistor dissipates the heat through the heat exchange between the bottom case and the heatsink. The ambient temperature here refers to the bottom case temperature of the resistor, which is generally referred to as the temperature in the center of the bottom case.
- 2.功率等级:200W
Power Range:200W
- 3.具有无感、耐高压、小体积大功率、寿命长、耐潮性好、电性能稳定。
Non-Inductive,Resistance-high voltage,small size,high power,long life, Moisture Resistance ,High Stability.
- 4.引出端采用M4螺钉引出。
Connection screw thread M4;

■ 适用范围 (Application)

深圳市正阳兴电子的系列厚膜电阻生产周期为2-3周,厚膜电阻的应用场合相当广泛,例如变速驱动器、供电、控制设备、通讯、自动控制、发动机控制,电力电子,医疗器械,电力传输,电容均压,电容泄放,功率负载,汽车电子,感应加热,电源设备,电气传动,无功补偿,RC吸收泄放,等电力电子行业。风力发电,光伏发电等新能源领域。
Production Time : 2-3 weeks . Widely used in Variable speed drive, power supply, control equipment, communication, automatic control, engine control, power electronics, medical devices, power transmission, capacitor voltage equalization, capacitor discharge, power load, automotive electronics, induction heating, power supply equipment, electrical transmission, reactive power compensation, RC absorption and discharge, and other power electronics industries. Wind power generation, photovoltaic power generation and other new energy fields.

■ 产品尺寸图表ZMP200W (Dimension Chart)



无感厚膜电阻(Non-inductive Thick Film Resistor)ZMP 120W

无感耐高压,大功率,小体积,大大节省安装空间,需安装在散热器上使用效果最佳
Non-inductive,High power ,Small size,Easy mounting, recommendations for mounting onto a heatsink.



■特点(Features)

- 1.无感厚膜电阻一般都是贴在系统散热器上的，以增强电阻器的散热。这里由于是电阻器底板贴合在系统散热器上，电阻器通过底板和散热器之间的热交换而把热量散出去，这里的环境温度指的是电阻器的底板温度，一般以底板中心的温度为参考。
Recommendations for mounting onto a heatsink to enhance the heat dissipation. The bottom case is attached to the system heatsink, and the resistor dissipates the heat through the heat exchange between the bottom case and the heatsink. The ambient temperature here refers to the bottom case temperature of the resistor, which is generally referred to as the temperature in the center of the bottom case.
- 2.功率等级:120W
Power Range:120W
- 3.具有无感、耐高压、小体积大功率、寿命长、耐潮性好、电性能稳定。
Non-Inductive,Resistance-high voltage,small size,high power,long life, Moisture Resistance ,High Stability.
- 4.引出端采用高温线引出。
Leading out end : high-temperature wire ;

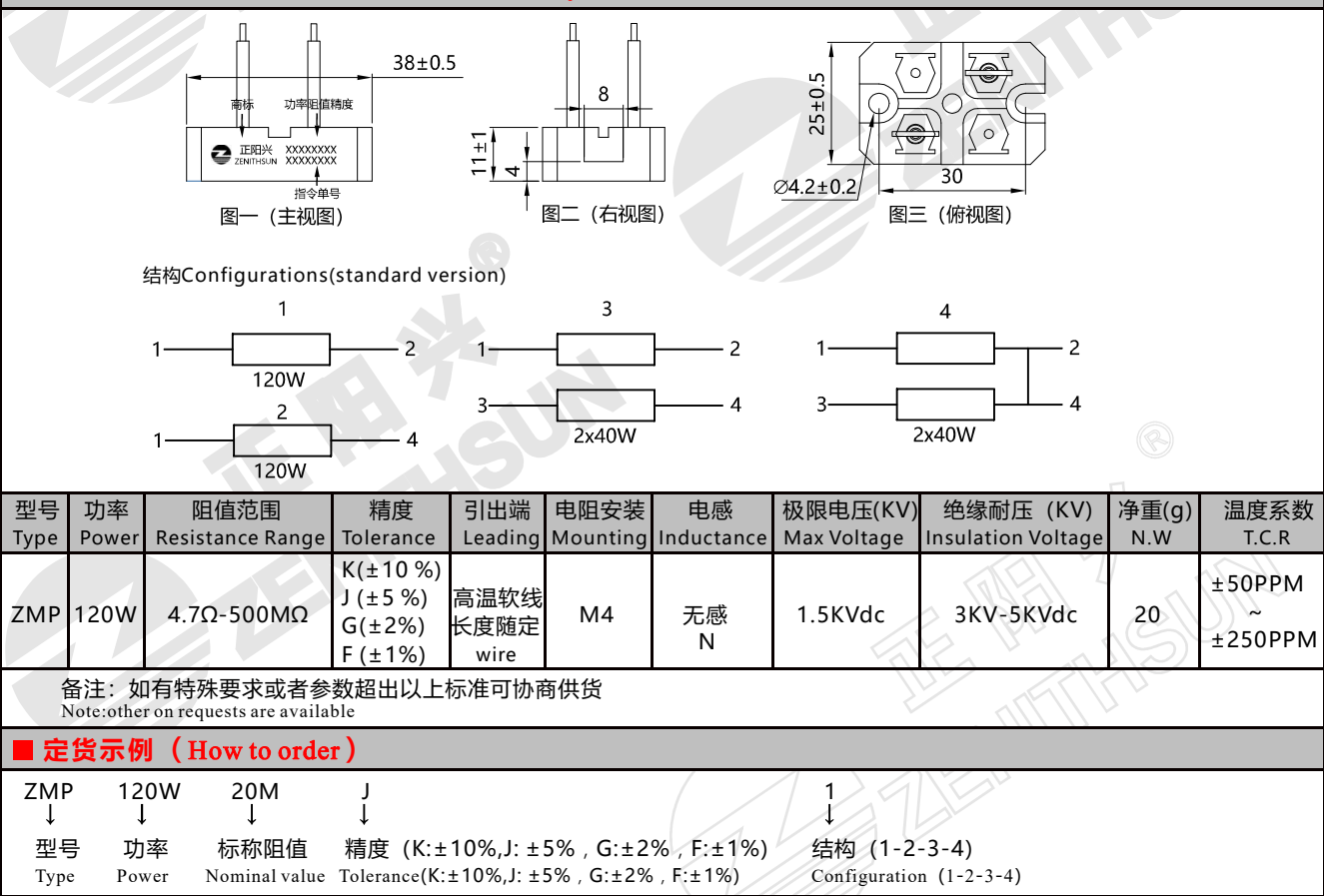
■结构 (Structure)

- 1.采用丝网印刷方式，印刷层几十微米厚的电阻膜，经高温烧结而成。基体为96%三氧化二铝陶瓷，导热系数好，机械强度高，电阻膜层采用贵金属钌系浆料，电性能稳定。
Screen printing ,resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 96% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.
- 2.工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结，然后再经调阻、焊接、封装等工序制作而成。
Technological Process: electrode printing → electrode sintering → resistor printing →resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

■适用范围 (Application)

深圳市正阳兴电子的系列厚膜电阻生产周期为2-3周，厚膜电阻的应用场合相当广泛,例如变速驱动器、供电、控制设备、通讯、自动控制、发动机控制，电力电子，医疗器械，电力传输，电容均压，电容泄放，功率负载，汽车电子，感应加热，电源设备，电气传动，无功补偿，RC吸收泄放，等电力电子行业。风力发电，光伏发电等新能源领域。
Production Time : 2-3 weeks .Widely used in Variable speed drive, power supply, control equipment, communication, automatic control, engine control, power electronics, medical devices, power transmission, capacitor voltage equalization, capacitor discharge, power load, automotive electronics, induction heating, power supply equipment, electrical transmission, reactive power compensation, RC absorption and discharge, and other power electronics industries. Wind power generation, photovoltaic power generation and other new energy fields.

■产品尺寸图表ZMP120W (Dimension Chart)



无感厚膜电阻(Non-inductive Thick Film Resistor)ZMP 100W/50W/35W/30W

无感耐高压,大功率,小体积,大大节省安装空间,需安装在散热器上使用效果最佳
Non-inductive,High power ,Small size,Easy mounting, recommendations for mounting onto a heatsink.



■ 结构 (Structure)

- 1.采用丝网印刷方式，印刷层几十微米厚的电阻膜，经高温烧结而成。基体为96%三氧化二铝陶瓷，导热系数好，机械强度高，电阻膜层采用贵金属钌系浆料，电性能稳定。
Screen printing ,resistor film printed layer with thickness of tens of microns, sintered at high temperature. The matrix is 96% aluminum oxide ceramic, with good thermal conductivity and high mechanical strength. The resistor film with precious metal ruthenium slurry, with stable electrical properties.
- 2.工艺流程一般是电极印制→电极烧结→电阻印制→电阻烧结→介质印制→介质烧结，然后再经调阻、焊接、封装等工序制作而成。
Technological Process: electrode printing → electrode sintering → resistor printing → resistor sintering → medium printing → medium sintering, then resistance adjustment, welding, encapsulation and other processes.

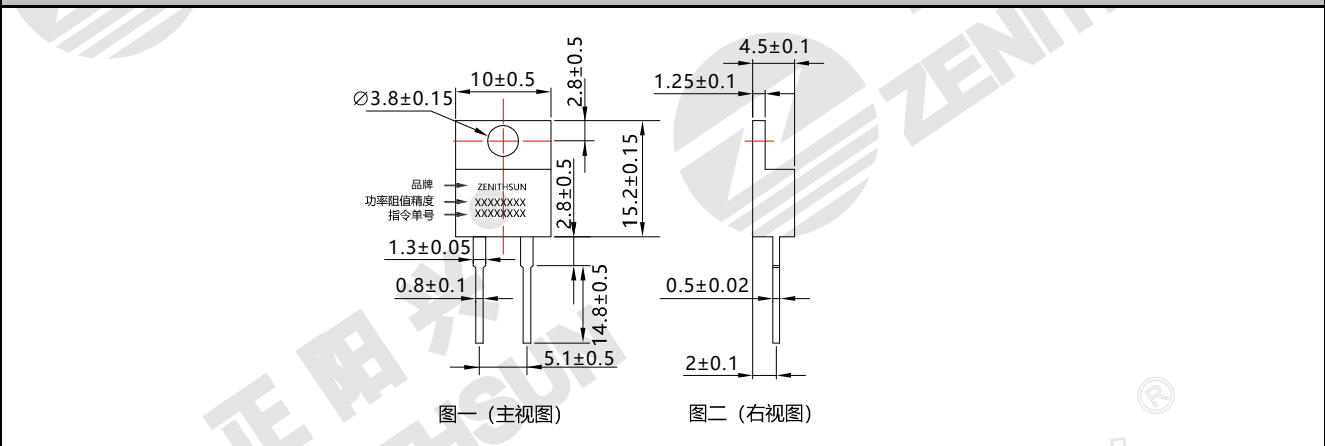
■ 特点(Features)

- 1.无感厚膜电阻一般都是贴在系统散热器上的，以增强电阻器的散热。这里由于是电阻器底板贴合在系统散热器上，电阻器通过底板和散热器之间的热交换而把热量散出去，这里的环境温度指的是电阻器的底板温度，一般以底板中心的温度为参考。
Recommendations for mounting onto a heatsink to enhance the heat dissipation. The bottom case is attached to the system heatsink, and the resistor dissipates the heat through the heat exchange between the bottom case and the heatsink. The ambient temperature here refers to the bottom case temperature of the resistor, which is generally referred to as the temperature in the center of the bottom case.
- 2.功率等级:30W-100W
Power Range:30W-100W
- 3.具有无感、耐高压、小体积大功率、寿命长、耐潮性好、电性能稳定。
Non-Inductive,Resistance-high voltage,small size,high power,long life, Moisture Resistance ,High Stability.
- 4.引出端采用镀锡铜线引出。
Lead Material:copper,tin-plated.

■ 适用范围 (Application)

深圳市正阳兴电子的系列厚膜电阻生产周期为2-3周，厚膜电阻的应用场合相当广泛,例如变速驱动器、供电、控制设备、通讯、自动控制、发动机控制，电力电子，医疗器械，电力传输，电容均压，电容泄放，功率负载，汽车电子，感应加热，电源设备，电气传动，无功补偿，RC吸收泄放，等电力电子行业。风力发电，光伏发电等新能源领域。
Production Time : 2-3 weeks .Widely used in Variable speed drive, power supply, control equipment, communication, automatic control, engine control, power electronics, medical devices,power transmission, capacitor voltage equalization, capacitor discharge,power load, automotive electronics, induction heating, power supply equipment,electrical transmission, reactive power compensation, RC absorption and discharge, and other power electronics industries. Wind power generation, photovoltaic power generation and other new energy fields.

■ 产品尺寸图表ZMP30W/35W (Dimension Chart)



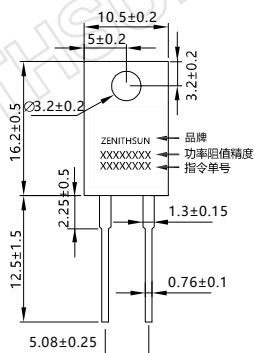
型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	引出端 Leading	电阻安装 Mounting	电感 Inductance	极限电压(KV) Max Voltage	绝缘耐压 (KV) Insulation Voltage	净重(g) N.W	温度系数 T.C.R
ZMP	30W	2.2Ω-500MΩ	K(±10%)	镀锡线 tinned wire	M3	无感 N	350Vdc 350Vdc	1.8KVac 1.8KVac	1.5	±50PPM ~ ±250PPM
ZMP	35W	2.2Ω-500MΩ	J(±5%) G(±2%) F(±1%)		M3					

备注：如有特殊要求或者参数超出以上标准可协商供货
Note:other on requests are available

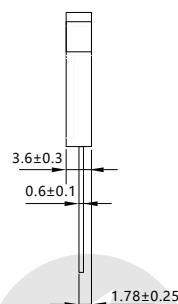
■ 定货示例 (How to order)

ZMP	100W	20M	J
↓	↓	↓	↓
型号 Type	功率 Power	标称阻值 Nominal value	精度 (K:±10%,J: ±5% , G:±2% , F:±1%) Tolerance(K:±10%,J: ±5% , G:±2% , F:±1%)

■ 产品尺寸图表ZMP50W (Dimension Chart)



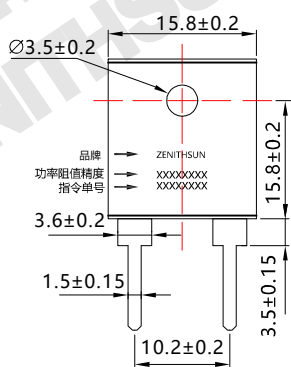
图一 (主视图)



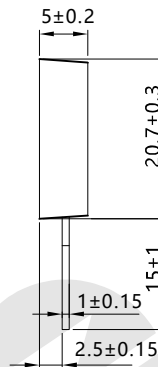
图二 (右视图)

型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	引出端 Leading	电阻安装 Mounting	电感 Inductance	极限电压(KV) Max Voltage	绝缘耐压 (KV) Insulation Voltage	净重(g) N.W	温度系数 T.C.R
ZMP	50W	2.2Ω-500MΩ	K(±10 %) J (±5 %) G(±2%) F (±1%)	镀锡线 tinned wire	M3	无感 N	500Vdc	1.8KVac	1.5	±50PPM ~ ±250PPM

■ 产品尺寸图表ZMP100W (Dimension Chart)



图一 (主视图)



图二 (右视图)

型号 Type	功率 Power	阻值范围 Resistance Range	精度 Tolerance	引出端 Leading	电阻安装 Mounting	电感 Inductance	极限电压(KV) Max Voltage	绝缘耐压 (KV) Insulation Voltage	净重(g) N.W	温度系数 T.C.R
ZMP	100W	2.2Ω-500MΩ	K(±10 %) J (±5 %) G(±2%) F (±1%)	镀锡线 tinned wire	M3	无感 N	700Vdc	1.8KVac	3.6	±50PPM ~ ±250PPM

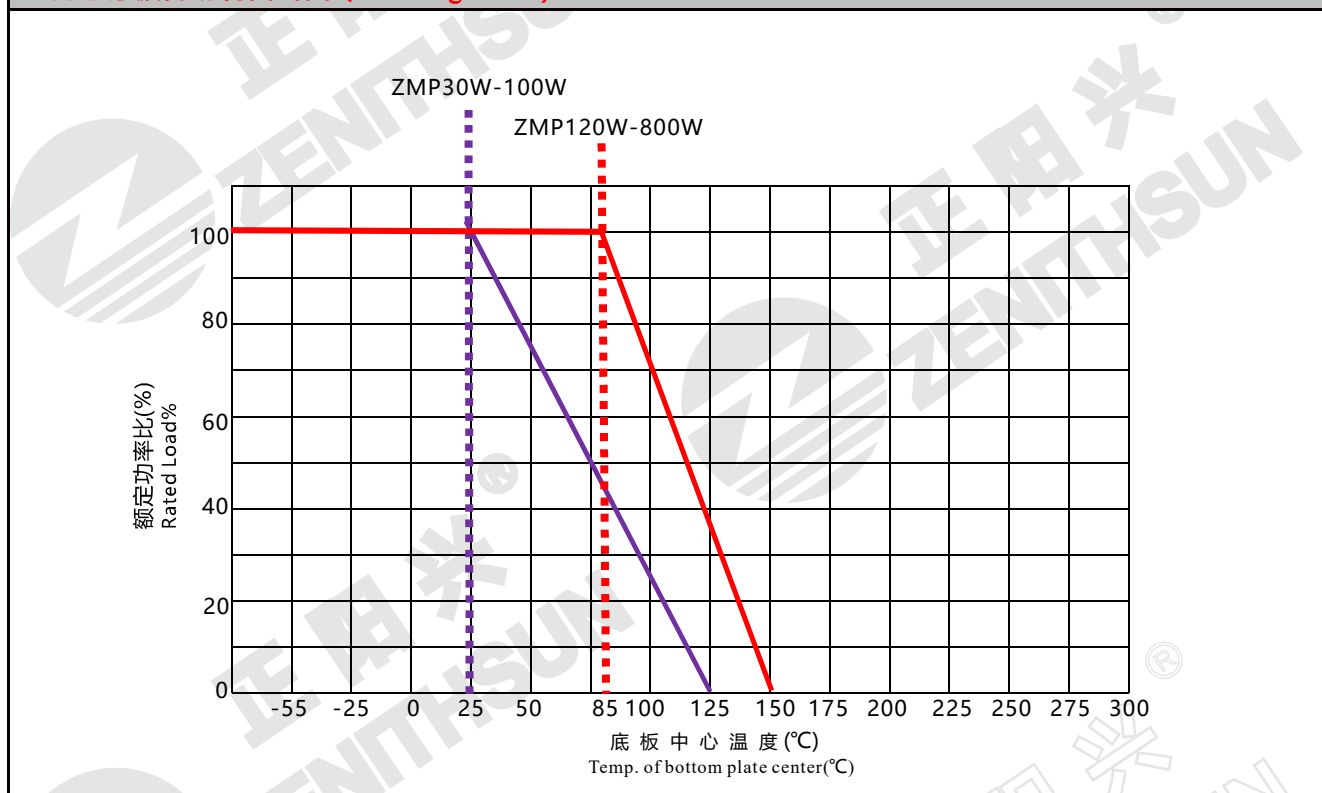
备注：如有特殊要求或者参数超出以上标准可协商供货
Note: other on requests are available

■ 定货示例 (How to order)

ZMP	100W	20M	J
↓	↓	↓	↓
型号 Type	功率 Power	标称阻值 Nominal value	精度 (K:±10%, J: ±5%, G:±2%, F:±1%) Tolerance(K:±10%, J: ±5%, G:±2%, F:±1%)

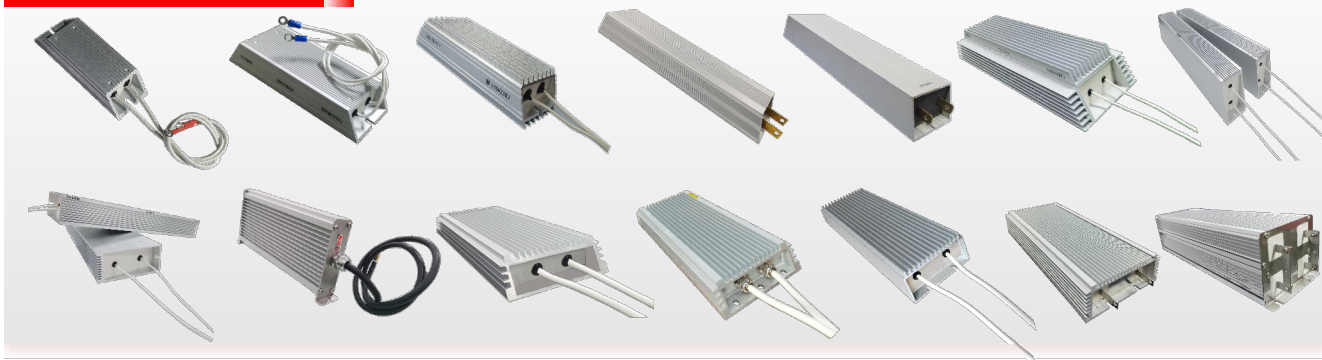
■ 无感厚膜电阻性能实验参数 (Performance Characteristics)		
项目 (Test)	试验条件 (Conditions of Test)	性能要求 (Testing Results)
电阻值容许误差 Resistance Tolerance	测试电压≤3V,环境温度25℃ Testing Voltage ≤3V,Ambient Temperature 25℃	B--C--D---F---G---J--K
温度系数 T.C.R	$\frac{R1-R0}{R0(T1-T0)} \times 10^6 \text{ (PPM/}^\circ\text{C)}$ R0:常温(T0)下阻值 R0:Room Temperature(T0)Resistance R1:常温T0+100℃(T1)下阻值 R1:Room Temperature T0+100℃(T1)Resistance	±50PPM~ ±1000PPM
短时间过负荷 Short Time Overload	1.5倍额定功率, 但不超过最大连续工作电压的1.5倍5秒钟 1.5 times rated power for 5 seconds, but not over 1.5 times continuous Umax	$\Delta R \leq \pm(0.2\%R + 0.1\Omega)$
绝缘电阻值 Insulation Resistance	500VDC	≥10GΩ1Min
室温耐久性 Load Life	额定电压, 通电90分钟, 停30分钟, 共1000小时 At rated voltage, 90 min "On", 30 min "Off", total 1000hours	$\Delta R \leq \pm(0.5\%R + 0.1\Omega)$
耐湿性 Humidity Resistance	温度: 40±2℃ 湿度: 90%-95%.240小时 Temp:40±2℃ Humidity:90%-95%.240hours	$\Delta R \leq \pm(0.4\%R + 0.1\Omega)$
耐高低温试验 High /Low Temp.	产品在-55℃~125℃环境条件下储存2H, 5次循环 Store at -55℃~125℃ for 2H, cycle for 5 times	$\Delta R \leq \pm(0.2\%R + 0.1\Omega)$
工作环境温度 Operating Temperature	-55℃~150℃	/

■ 无感厚膜降功耗曲线图 (Derating Curve)

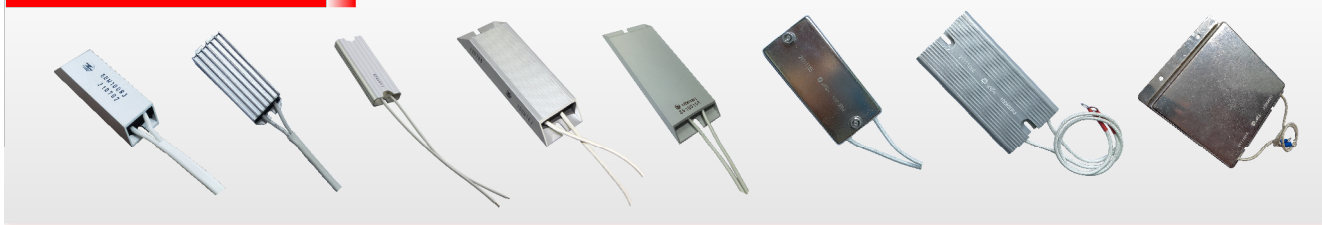


电阻产品体系图>>>

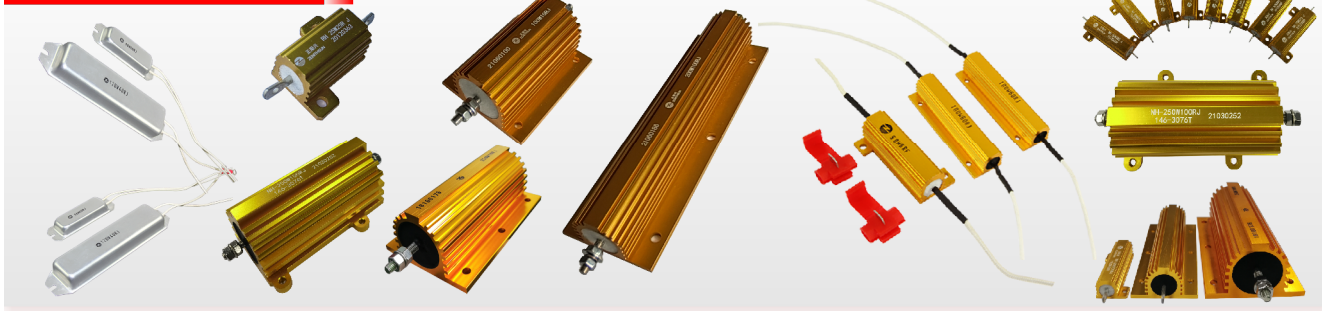
铝壳电阻ASZ



铝壳电阻ASCB



铝壳电阻RH/NH,ASC

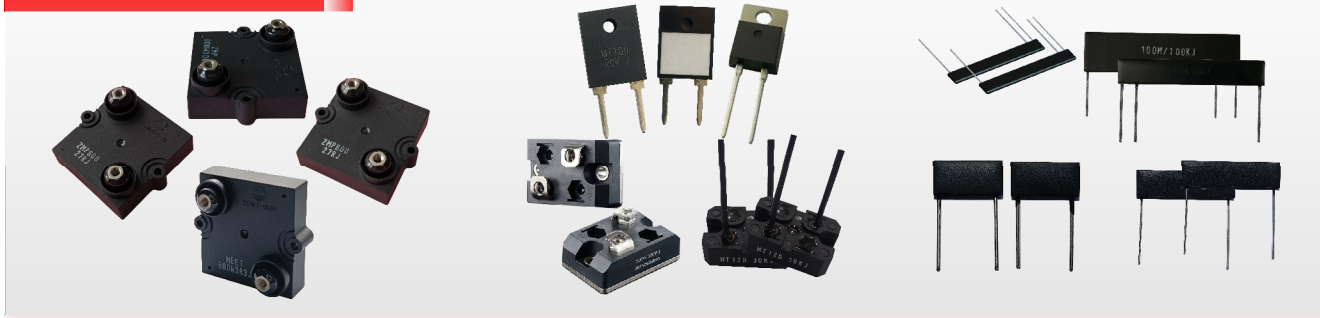


高压电阻R180



电阻产品体系图>>>

厚膜电阻ZMP/RI82/RF82



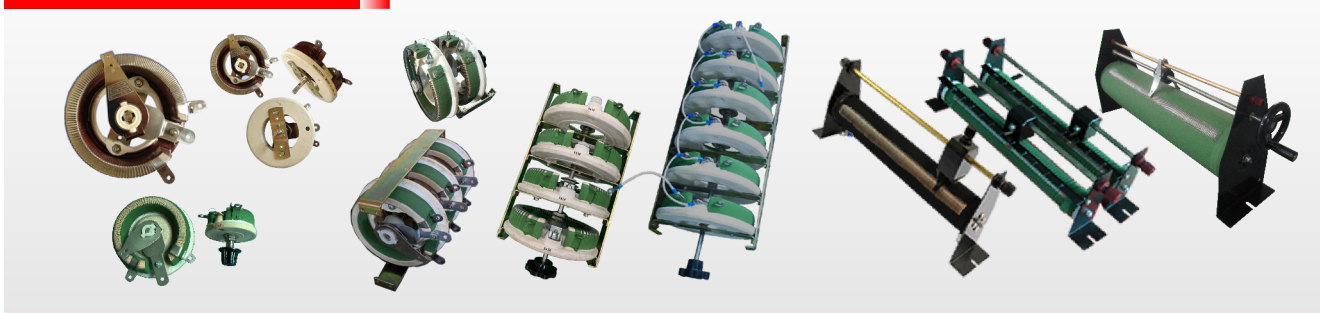
水冷电阻SLR



绕线电阻DDR/DNR、DQR/DQN、DSR、DRBY/DSBY

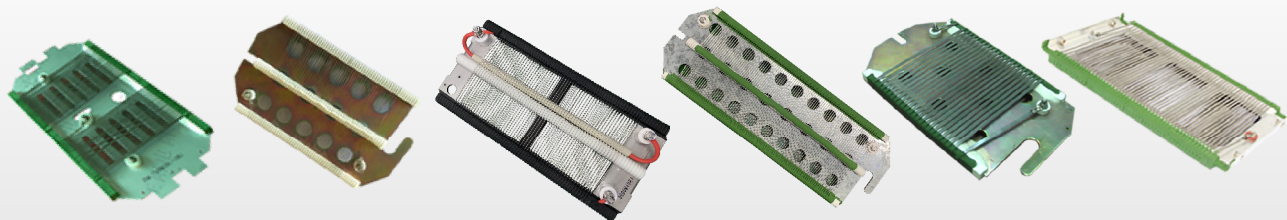


滑动电阻DSY、DST、BC1



电阻产品体系图>>>

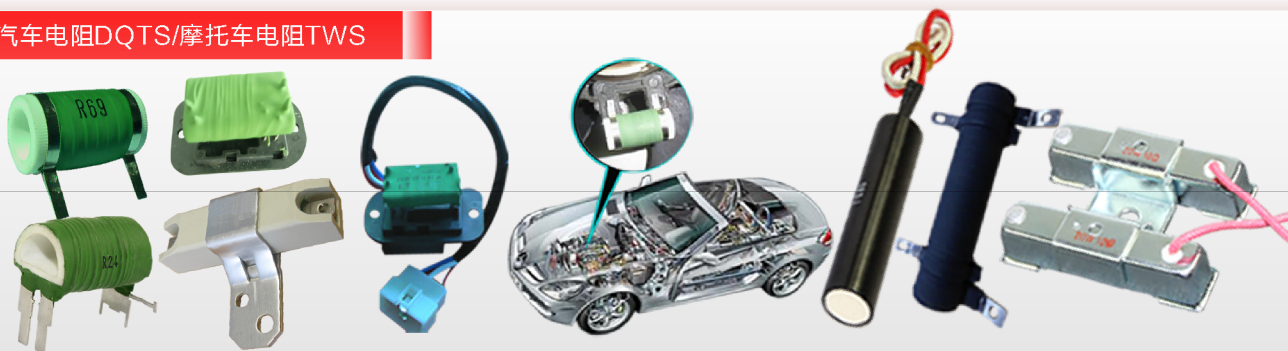
板型电阻ZB



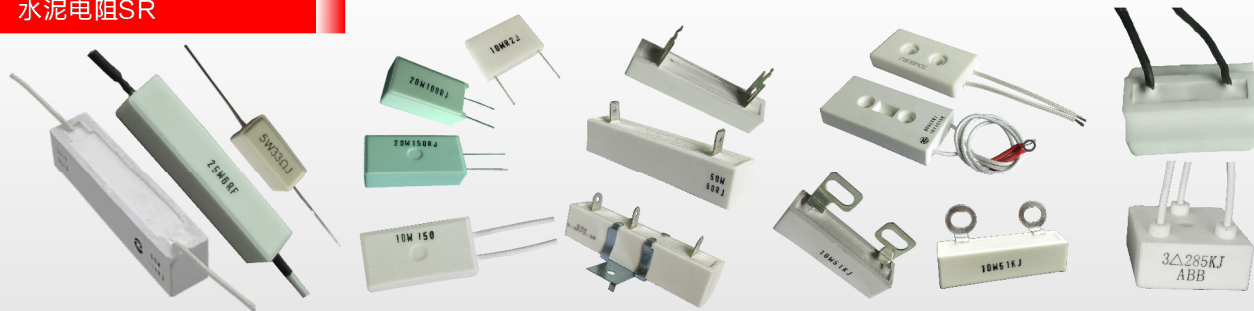
高能电阻HD



汽车电阻DQTS/摩托车电阻TWS



水泥电阻SR

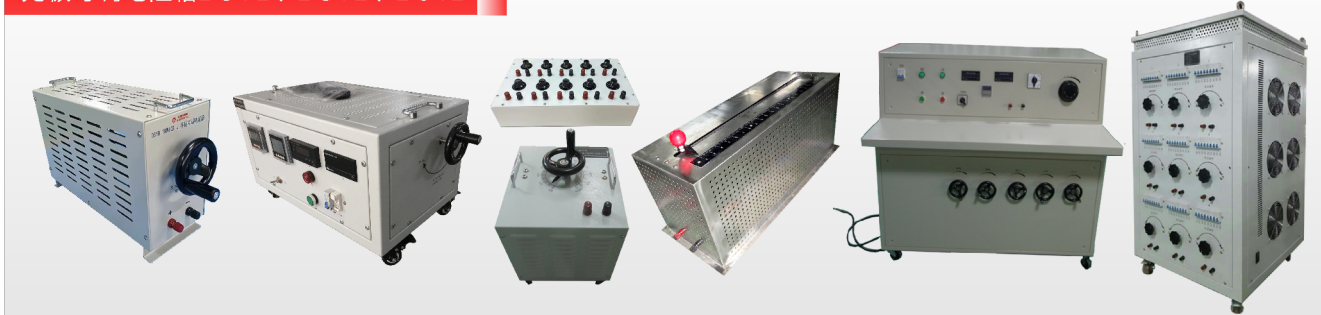


电阻产品体系图>>>

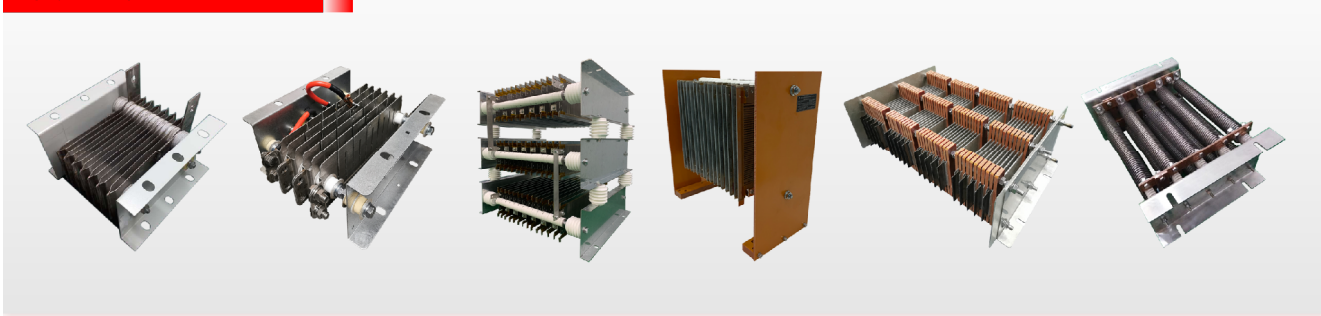
碳膜高压电阻PC/分流器FL/瓷棒绕线电阻KN



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

