



SHV Resistor

Cylindrical High Voltage Thick Film Resistor up to 50W

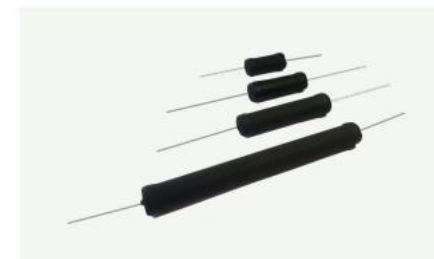
Flat High Voltage Thick Film Resistor up to 45KV (DC)

Precision High Voltage Resistance Divider with low TCR and VCR



High Voltage Thick Film Resistor Cylindrical

- Non-inductive Design
- High Reliability
- TCR as low as 15ppm/°C (25 ~ 85°C)
- Resistance ranged from 200Ω to 10GΩ
- Max Working Temperature +225°C
- Customization Available



Electrical Characteristics

- Tolerance:** ±0.25% ~ ±10%
- Voltage Coefficient:** As low as 0.1ppm/V
- Max Working Voltage:** Up to 45KV
- Max Rated Power:** Up to 50W
- Lifetime:** ±0.5%(1000hours, rated load125°C)
- Overload/Overvoltage:** $\Delta R \leq 0.5\%$ (5times rated power with applied voltage not to exceed 1.5times max. continuous operating voltage for 5seconds)
- Thermal Shock Test:** MIL-Std-202, Method 107 cond.B, $\Delta R \leq 0.20\%$
- Moisture Resistance:** MIL-Std-202, Method 106, $\Delta R \leq 0.40\%$

Selection table

Model	Rated Power W	Rated Voltage KV	Resistance Min Ω	Resistance Max Ω	Body Dimension		Lead Wire Dimension	
					Length ±1 (mm)	Diameter ±1 (mm)	Length ±3 (mm)	Diameter (mm)
RC20	5	4.8	200	1G	20.20	8.2	38.00	1.00
RC26	7	6.4	250	1G	26.90	8.2	38.00	1.00
RC32	9	8.0	300	1.5G	33.00	8.2	38.00	1.00
RC39	11	12.8	400	1.5G	39.50	8.2	38.00	1.00
RC52	15	16	500	2.5G	52.10	8.2	38.00	1.00
RC78	20	24	900	4G	77.70	8.2	38.00	1.00
RC103	25	32	1200	6G	102.90	8.2	38.00	1.00
RC124	30	40	1500	8G	123.70	8.2	38.00	1.00
RC154	50	45	2000	10G	153.70	8.2	38.00	1.00

Application

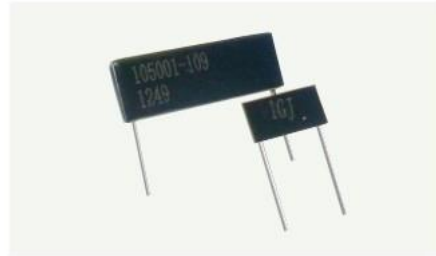
X-ray Equipment, High Voltage Power Supply, Multiplier, Electrical System

Find SHV resistor at www.shv.hk, contact us thru sales@shv.hk if any needs.

High Voltage Thick Film Resistor

Flat

- Non-inductive Design
- Low Noise, Low Voltage Coefficient
- TCR as low as 15ppm/°C (25 ~ 85°C)
- Max Resistance 10T
- Max Working Temperature +225°C
- Customization Available



Electrical Characteristics

- Tolerance:** ±0.25% ~ ±10% (Based on resistance)
- Voltage Coefficient:** As low as 0.1ppm/V (Based on resistance)
- Max Working Voltage:** Up to 45KV
- Max Rated Power:** 5.0W
- Lifetime:** ±0.5%(1000hours, rated load125°C)
- Overload/Overvoltage:** $\Delta R \leq 0.5\%$ (5times rated power with applied voltage not to exceed 1.5times max. continuous operating voltage for 5seconds)
- Thermal Shock Test:** MIL-Std-202, Method 107 cond.B, $\Delta R \leq 0.20\%$
- Moisture Resistance:** MIL-Std-202, Method 106, $\Delta R \leq 0.40\%$

Selection table

Model	Rated Power W	Rated Voltage KV	Body Dimension		Lead Wire Dimension		
			Length ±1 (mm)	Width ±1 (mm)	Spacing ±1 (mm)	Length ±2 (mm)	Diameter (mm)
RF13	0.5	4.0	13.00	3.50	10.20	20.00	0.60
RF26	0.7	7.5	26.00	6.00	23.00	20.00	0.60
RF30	1.65	10.0	30.00	7.00	27.50	20.00	0.60
RF40	3.00	20.0	40.00	7.00	37.50	20.00	0.60
RF50	4.00	24.0	50.00	7.00	47.50	20.00	0.60
RF51	5.00	30.0	50.00	13.00	47.50	20.00	0.60

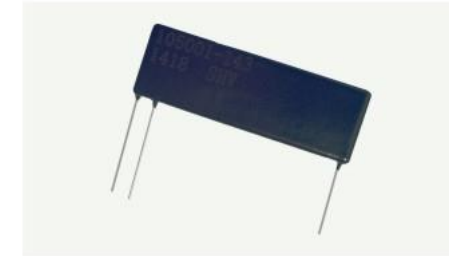
Application

High Voltage Power Supply, Medical Electronics, Gas/Radiation Detector

High Voltage Thick Film Resistor

Precision Resistive Divider

- Non-inductive Design
- Tracking Accuracy as low as 0.25%
- TCR as low as 15ppm/°C
- Max Resistance 10T
- Max Working Temperature +225°C
- Customization Available



Electrical Characteristics

- Absolute Tolerance:** ±0.25% ~ ±10% (Based on resistance)
- Tracking Tolerance:** ±0.25% ~ ±10% (Based on resistance)
- Absolute TCR as low as 15ppm/°C (Based on resistance)
- Tracking TCR as low as 15ppm/°C (Based on resistance)
- Voltage Coefficient as low as 0.1ppm/V (Based on resistance)
- Max Working Voltage:** Up to 45KV
- Max Rated Power:** 3.0W
- Life time:** ±0.5%(1000hours, rated load125°C)
- Overload/Overvoltage:** $\Delta R \leq 0.50\%$ (5times rated power with applied voltage not to exceed 1.5times max. continuous operating voltage for 5seconds)
- Thermal Shock Test:** MIL-Std-202, Method 107 cond.B, $\Delta R \leq 0.20\%$
- Moisture Resistance:** MIL-Std-202, Method 106, $\Delta R \leq 0.40\%$

Selection table

Model	Rated Power W	Rated Voltage KV	Body Dimension		Lead Wire Dimension			
			Length ±1 (mm)	Width ±1 (mm)	Spacing 1 ±1 (mm)	Spacing 2 ±1 (mm)	Length ±2 (mm)	Diameter (mm)
RFD26	0.5	8.0	26.00	8.0	23.00	5.00	30.00	0.60
RFD40	1.4	16.0	40.00	13.00	37.50	8.00	30.00	0.60
RFD50	2.00	24.0	50.00	16.00	47.50	10.00	30.00	0.80
RFD78	3.00	30.0	78.00	16.00	75.50	10.00	30.00	0.80

Application

High Voltage Power Supply, Multiplier, Electrical System, Sampling