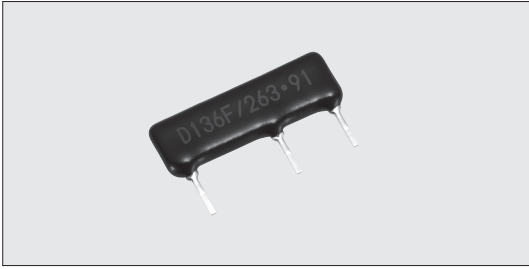
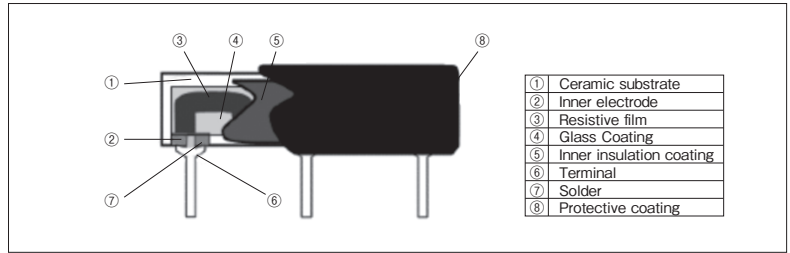


## RK92D Thick Film Resistors For High Voltage (High-precision high voltage divider)



Coating color : Black  
Marking : Alphanumeric

### Construction



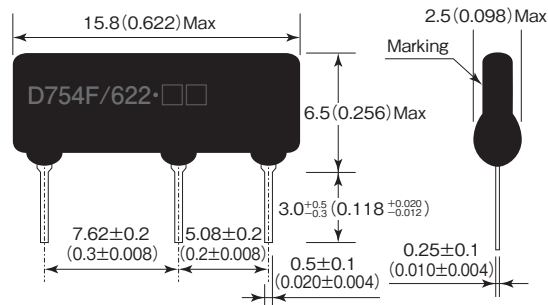
### Features

- High-precision high voltage divider for high voltage circuits.
- Thin SIP shape.
- The flame retardant coats corresponding to UL94V-0 are used.
- Higher relative accuracy of resistance value is possible with one package.
- Thick film resistors (RuO<sub>2</sub>) ensure high stabilities in life and change in aging.
- Products with lead free termination meet EU-RoHS requirements. EU-RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.

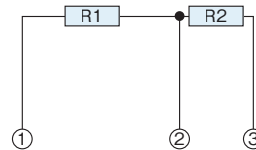
### Applications

- PPCs and LBP's for power supply circuits
- High voltage power supplies of analyzing devices and medical equipment.
- High voltage detecting circuits for smart meters and power monitoring system.

### Dimensions\*1 mm (inch)



Style	Weight (1000pcs)
RK92D32C4D	297g



\*1 Please contact us for the outline method and circuit diagram of custom products.

### Type Designation

Product Code	Type	Terminal pitch 1	Terminal pitch 2	Height symbol	Voltage symbol	Manufacturing serial number (Internal circuit is indicated by A00)	Terminal symbol	Resistance symbol	Resistance Tolerance
RK92 (Standard)	D	3	2	C	4	Nil	D	(R1+R2)/R2	F
RK92 (Custom)	D	8	2	C	Nil	A00	D	Nil	Nil

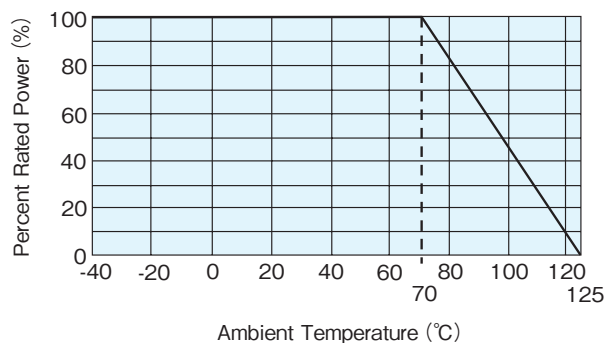
### Ratings\*2

Style	Max. Working Vol. symbol	Nominal Resistance	Power Rating		Resistance (Ω)		Resistance Tolerance (R1+R2)	Relative Resistance ratio		T.C.R. (× 10 <sup>-6</sup> /K)		Max. Working Voltage	Rated Ambient Temp.	Operating Temp. Range
			R1	R2	(R1+R2) E24	R2		(R1+R2)/R2	Tolerance	Absolute	Relative			
32C	4	754/622	0.5W	0.2W*3	750k	6.25k	F: ±1%	0.2%	±100	50	4kV	70°C	-40°C ~ +125°C	
		205/103			2M	10k								120
		136/263			13M	26k								200
		336/333			33M	33k								500

\*2 Please consult with us about custom rating products.

\*3 0.2W is a calculated value based on designing. The actual value is smaller than 0.2W according to the relative resistance ratio in the catalog.

## Derating Curve



For resistors operated at an ambient temperature of 70°C or higher, the power shall be derated in accordance with the above derating curve.

## Performance

Test Items	Performance Requirements $\Delta R \pm (\% + 0.05\Omega)$		Test Methods
	Limit	Typical	
Resistance	Within specified tolerance		25°C
T.C.R.	Within specified T.C.R.		+25°C / +125°C
Resistance to soldering heat	$\pm 0.5$	$\pm 0.2$	260°C $\pm 5^\circ\text{C}$ , 10s $\pm 1$ s
Rapid change of temperature	$\pm 0.5$	$\pm 0.2$	-40°C (30min.) / +125°C (30min.) 5 cycles
Moisture Resistance	$\pm 2$	$\pm 1$	40°C $\pm 2^\circ\text{C}$ , 90%~95%RH, 1000h 1.5h ON/0.5h OFF cycle
Endurance	$\pm 2$	$\pm 1$	70°C $\pm 2^\circ\text{C}$ , 1000h 1.5h ON/0.5h OFF cycle