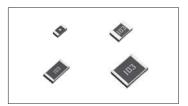


High Voltage Resistance Chip Resistors

KTR Series

Features

- 1) Twice the rated voltage of conventional products..
- 2) Perfect for use in high voltage circuit. (Camera Flash circuit, etc)
- 3) ROHM resistors have obtained ISO9001 / ISO / TS16949 certification.
- 4) Corresponds to AEC-Q200. (KTR18)



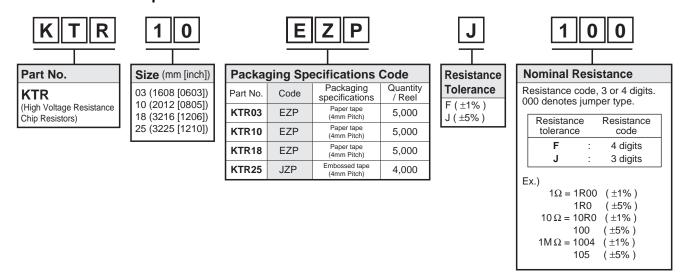
Products List

Part No.	Si (mm)	ze (inch)	(70°C)	Limiting Element Voltage	Maximum Overload Voltage	Temperature Coefficient	Resistance Tolerance	Resistance Range	Series	Operating Temperature Range
	(,	((W)	(V)	(V)	(ppm / °C)	(%)			(°C)
KTR03	1608	0603	0.1	350	500	±200	J(±5%)	1Ω to 10MΩ		
KIKUS	1000	0003	0.1	330	500	±100	F(±1%)	122 10 1010122		
KTR10	0040	0005	0.125	400	800	±200	J(±5%)	1Ω to 10MΩ	- E24	-55 to +155
KIKIU	2012	0805	0.125	400	600	±100	F(±1%)	122 to 10M22		
KTR18	3216	1206	0.25	500	1000	±200	J(±5%)	- 1Ω to 10MΩ	E24	
KIKIO	3210	1206	0.25	300	1000	±100	F(±1%)	132 10 1010132		
KTR25	3225	1210	0.22	600	1200	±200	J(±5%)	- 1Ω to 10MΩ		
KIR25	3223	1210	0.33	600	1200	±100	F(±1%)	122 10 1010122		

^{*}Design and specifications are subject to change without notice.

Carefully check the specification sheet supplied with the product before using or ordering it.

Part Number Description

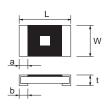


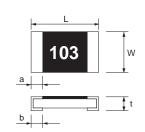
KTR Series Data Sheet

Chip Resistor Dimensions and Markings

■ KTR03

■ KTR10 / 18 / 25





<Marking method>

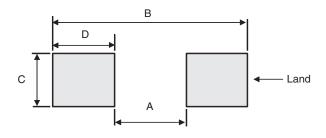
There are three or four digits used for the calculation number according to IEC code and "R"is used for the decimal point.

(Unit: mm)

Part No.	(mm)	(inch)	L	W	t	а	b	Marking existence
KTR03	1608	0603	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2	No *
KTR10	2012	0805	2.0±0.1	1.25±0.1	0.55±0.1	0.3±0.2	0.4±0.2	Yes
KTR18	3216	1206	3.2±0.15	1.6±0.15	0.55±0.1	0.3±0.25	0.5±0.25	Yes
KTR25	3225	1210	3.2±0.15	2.5±0.15	0.55±0.15	0.3±0.25	0.5±0.25	Yes

*Only with square mark

•Land pattern Example



(Unit : mm)

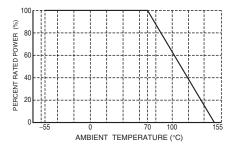
Dimensions Part No.	А	В	С	D
KTR03	1.0	2.0	0.8	0.5
KTR10	1.2	2.6	1.15	0.7
KTR18	2.2	4.0	1.5	0.9
KTR25	2.2	4.0	2.3	0.9

KTR Series Data Sheet

Derating Curve

When the ambient temperature exceeds 70°C, power dissipation must be adjusted according to the derating curves below.

■ KTR03 / 10 / 18 / 25



Characteristics

Test Items	Guaranteed Value	Test Conditions		
restitents	Resistor Type	Test Conditions		
Resistance	See P.1	20°C		
Variation of resistance with temperature	See P.1	Measurement: +20 / -55 / +20 / +125°C		
Overload	± (2.0%+0.1Ω)	Rated voltage (current) ×2.5, 2s Maximum overload voltage		
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.	Rosin-Ethanol : 25% (Weight) Soldering condition : 235±5°C Duration of immersion : 2.0±0.5s		
Resistance to soldering heat	\pm (1.0%+0.05 $\!\Omega$) No remarkable abnormality on the appearance.	Soldering condition : 260±5°C Duration of immersion : 10±1s		
Rapid change of temperature	± (1.0%+0.05Ω)	Test temp. : −55°C to +125°C 5cycle		
Damp heat, steady state	± (3.0%+0.1Ω)	40°C, 93%RH (Relative Humidity) Test time : 1,000h to 1,048h		
Endurance at 70°C	± (3.0%+0.1Ω)	70°C Rated voltage (current) 1.5h: ON – 0.5h: OFF Test time: 1,000h to 1,048h		
Endurance	± (3.0%+0.1Ω)	155°C Test time : 1,000h to 1,048h		
Resistance to solvent	± (1.0%+0.05Ω)	23±5°C, Immersion cleaning, 5±0.5min Solvent : 2–propanol		
Bend strength of the end face plating	\pm (1.0%+0.05 Ω) Without mechanical damage such as breaks.	-		

Compliance Standard(s): IEC60115-8 JISC 5201-8

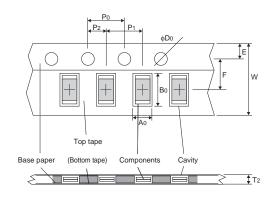
●Chip weight (typical value)

Parameter	Unit	KTR03	KTR10	KTR18	KTR25
Weight	mg/pc	2.18	5.13	9.62	16.47

KTR Series Data Sheet

●Tape Dimensions

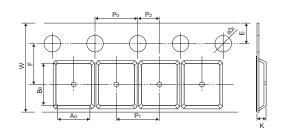
■ Paper Tape



					(Unit : mm)
Part No.	W	F	Е	Ao	B0
KTR03	8.0±0.3	3.5±0.05	1.75±0.1	1.1±0.1	1.9±0.1
KTR10	8.0±0.3	3.5±0.05	1.75±0.1	1.65 ^{+0.2} _{-0.1}	2.4 ^{+0.2} _{-0.1}
KTR18	8.0±0.3	3.5±0.05	1.75±0.1	1.95 ^{+0.1} _{-0.05}	3.5 ^{+0.15} _{-0.05}

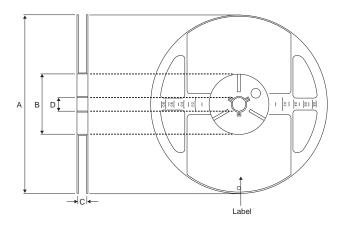
Part No.	D0	Po	P1	P2	T2
KTR03	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
KTR10	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
KTR18	φ1.5 ^{+0.1} 0	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

■ Embossed Tape



					(Unit : mm)
Part No.	W	F	E	A0	B0
	8.0±0.3	3.5±0.05	1.75±0.1	3.0±0.1	3.5±0.1
KTR25	D0	Po	P1	P2	K
	φ1.5 ^{+0.1} 0	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

•Reel Dimensions



ACCORDING TO EIAJ ET-7200B

(Unit: mm)

				, ,
Part No.	А	В	С	D
KTR03				
KTR10	4190 0	φ60 ^{+1.0}	9 +1.0	*13+0.3
KTR18	φ180 ⁰ -1.5	φου 0	9 0	φ13±0.2
KTR25				

Notes

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