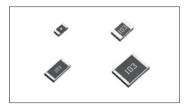


High Voltage Resistance Chip Resistors

KTR Series Datasheet

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)

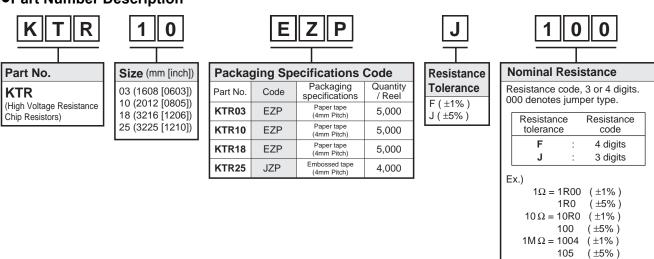


Products List

Part No.	Si (mm)	ze (inch)	Rated Power (70°C) (W)	Limiting Element Voltage (V)	Temperature Coefficient (ppm / °C)	Resistance Tolerance (%)	Resistance Range	Operating Temperature Range (°C)	Automotive Grade Available
LETTO	4000	0000	0.4	350	±200	J(±5%)	1 Ω to 10M Ω (E24 Series)		VEO
KTR03	1608 0603 0.1		350	±100	F(±1%)	1Ω to 10MΩ (E24,96 Series)		YES	
KTD40	0040	0005	0.405	400	±200	J(±5%)	1Ω to 30MΩ (E24 Series)		VEC
KTR10	2012 0805 0.125	0.125	0.125 400	±100	F(±1%)	1 Ω to 10M Ω (E24,96 Series)	-55 to +155	YES	
KTD40	0040	4000	0.05	500	±200	J(±5%)	1Ω to 15MΩ (E24 Series)	-55 (0 +155	YES
KTR18	3216	1206	0.25	500	±100	F(±1%)	1 Ω to 10M Ω (E24,96 Series)		123
KTDOF	2225 1210 000		600	±200	J(±5%)	1 Ω to 10M Ω (E24 Series)		VES	
KIR25	KTR25 3225 1210 0.33		210 0.33 600		±100	F(±1%)	1 Ω to 10M Ω (E24,96 Series)		YES

^{*}E24 : Standard products, E96 : Custom products.

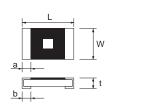
●Part Number Description

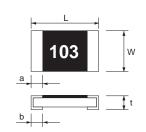


●Chip Resistor Dimensions and Markings

■ KTR03

■ KTR10 / 18 / 25





<Marking method>

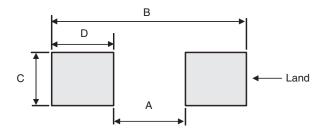
There are three or four digits used for the calculation number according to IEC code and "R"is used for the decimal point.

(Unit: mm)

	(One : min)							
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±0.1	0.3±0.25	0.5±0.25	Yes

*Only with square mark

•Land pattern Example



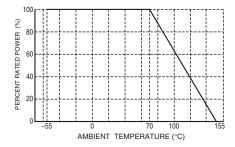
(Unit : mm)

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

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		
rest items	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)	Test voltage is the smaller one of ① or ② ① Rated voltage (current) ×2.5, 2s. ② 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 : 245±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.	-		

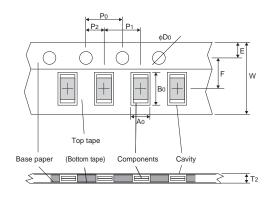
Maximum overload voltage (Test voltage)

		J (
KTR03	KTR10	KTR18	KTR25
500V	800V	1000V	1200V

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

●Tape Dimensions

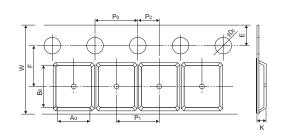
■ Paper Tape



					(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}

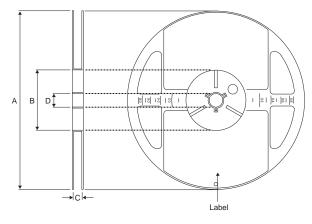
Part No.	D0	P0	P1	P2	T2
KTR03	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
KTR10	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
KTR18	φ1.5 ^{+0.1} 0	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

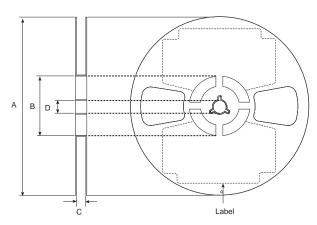
■ Embossed Tape



					(Unit : mm)
Part No.	W	F	Е	Ao	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

ACCORDING TO EIAJ ET-7200B (RRV)

				(Unit : mm)
Part No.	А	В	С	D
KTR03				
KTR10	.400 0	φ60 ^{+1.0}	9 +1.0	140100
KTR18	φ180 ⁰ -1.5	φου 0	9 0	φ13±0.2
KTR25				

Notes

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