High Voltage Resistance Chip Resistors

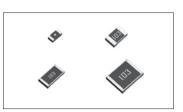
Datasheet

Features

ROHM

- 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)

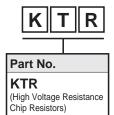
Products List



Part No.		ze	Rated Power (70°C)	Limiting Element Voltage	Temperature Coefficient	Resistance Tolerance	Resistance Range	Operating Temperature Range	Automotive Grade Available
	(mm)	(inch)	(W)	(V)	(ppm / °C)	(%)		(°C)	
KTD02	1608	0603	0.1	350	±200	J(±5%)	1Ω to $10M\Omega$ (E24 Series)		YES
KTR03	1000	0603	0.1	550	±100	F(±1%)	1Ω to $10M\Omega$ (E24,96 Series)		TES
KTR10	0040	0005	0.125	400	±200	J(±5%)	1Ω to $30M\Omega$ (E24 Series)		YES
KIRIU	2012	0805 0.125	0.120	400	±100	F(±1%)	1Ω to $10M\Omega$ (E24,96 Series)	–55 to +155	TES
KTR18	0040	1000	0.25	500	±200	J(±5%)	1Ω to $15M\Omega$ (E24 Series)	-55 10 +155	YES
KIK10	3216	1206	0.25	500	±100	F(±1%)	1Ω to $10M\Omega$ (E24,96 Series)		TES
KTDOS	3225	1210	0.00	600	±200	J(±5%)	1Ω to $10M\Omega$ (E24 Series)		YES
KTR25	5225	1210	0.33	600	±100	F(±1%)	1Ω to $10M\Omega$ (E24,96 Series)		TES

*E24 : Standard products, E96 : Custom products.

•Part Number Description



Size (mm [inch])
03 (1608 [0603]) 10 (2012 [0805]) 18 (3216 [1206]) 25 (3225 [1210])

10

EZP	,
	-
Packaging Specificatio	ns Code

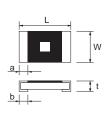
Part No.	Code	Code Packaging specifications					
KTR03	EZP	Paper tape (4mm Pitch)	5,000				
KTR10	EZP	Paper tape (4mm Pitch)	5,000				
KTR18	EZP	Paper tape (4mm Pitch)	5,000				
KTR25	JZP	Embossed tape (4mm Pitch)	4,000				

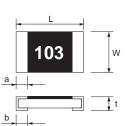
J		1	0	0	
Resistance	N	ominal l	Resi	stance	
Tolerance F (±1%)		esistance)0 denotes		3 or 4 digits. ber type.	
J (±5%)		Resistan toleranc		Resistance code	
		F	:	4 digits	1
		J	:	3 digits	
	E	$1\Omega =$ $10 \Omega =$ $1M \Omega =$	1R0 10R0 100	(±1%) (±5%)	

•Chip Resistor Dimensions and Markings

KTR03







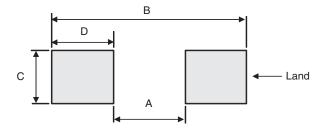
<Marking method>

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±0.1	0.3±0.25	0.5±0.25	Yes

*Only with square mark

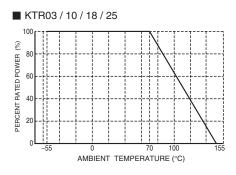
•Land pattern Example



				(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.



Characteristics

Test Items	Guaranteed Value	Test Conditions		
	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 Ω) 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.	_		

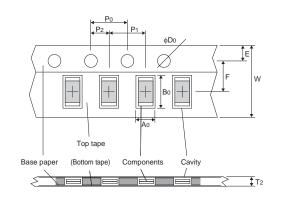
% Maximum overload voltage (Test voltage)

			-
KTR03	KTR10	KTR18	KTR25
500V	800V	1000V	1200V

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

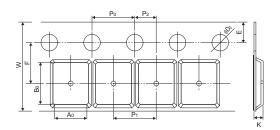
•Tape Dimensions

Paper Tape



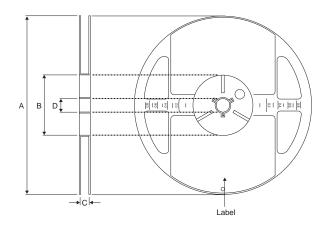
					(Unit : mm)
Part No.	W	F	E	A0	Bo
KTR03	8.0±0.3	3.5±0.05	1.75±0.1	1.1±0.1	1.9±0.1
KTR10	8.0±0.3	3.5±0.05	1.75±0.1	1.65 ^{+0.2} -0.1	2.4 ^{+0.2} -0.1
KTR18	8.0±0.3	3.5±0.05	1.75±0.1	1.95 ^{+0.1} -0.05	3.5 ^{+0.15} -0.05
Part No.	D0	P0	P1	P2	T2
KTR03	φ1.5 ^{+0.1} 0	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
KTR10	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

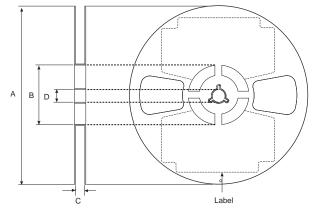
Embossed Tape



					(Unit : mm)
Part No.	W	F	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	P0	P1	P2	К
	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	$\phi 60 \stackrel{+1.0}{0}$	9 ^{+1.0} 0	φ13±0.2
KTR18	^{φ180} -1.5			
KTR25				

	Notes
1)	The information contained herein is subject to change without notice.
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3)	Although ROHM is continuously working to improve product reliability and quality, semicon- ductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Poducts beyond the rating specified by ROHM.
4)	Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The periphera conditions must be taken into account when designing circuits for mass production.
5)	The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly any license to use or exercise intellectual property or other rights held by ROHM or any othe parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use o such technical information.
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