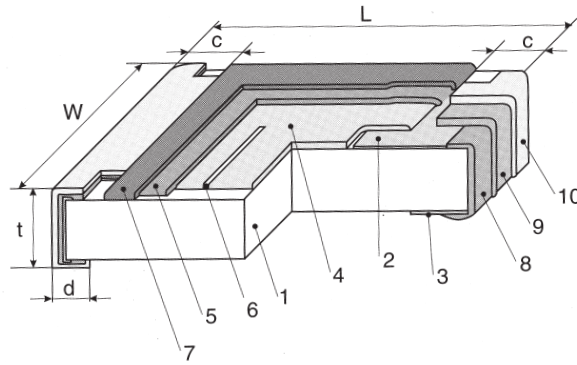
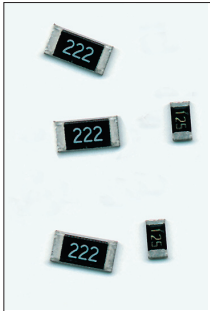


**FLAT CHIP
THICK FILM
HIGH VOLTAGE
HV73**



STRUCTURE

- 1 Ceramic substrate
- 2 Top termination
- 3 Bottom termination
- 4 Resistive layer
- 5 Glass layer
- 6 Trimming cut
- 7 Protective layer
- 8 End termination
- 9 Diffusion barrier (Ni)
- 10 Solder plating



IDENTIFICATION

TYPE	COATING COLOR	MARKING
HV73 1J HV73 2A, 2B, 2H, 3A	Black	None White, 3 digits

All these products have Pb-free terminations and meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

HV73	2B	T	TD	1004	F
PRODUCT CODE	STYLE 1J: 0.1W 2A: 0.125W 2B: 0.25W 2H: 0.5W 3A: 1W	TERMINATION SURFACE MATERIAL T: Sn	TAPING* TD: punched paper tape TE: embossed plastic tape BK: Bulk <small>*Please see "PACKAGING"</small>	NOMINAL RESISTANCE J, G: 3 digits D, F: 4 digits	TOLERANCE D: (±0.5%) F: (±1%) G: (±2%) J: (±5%)

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

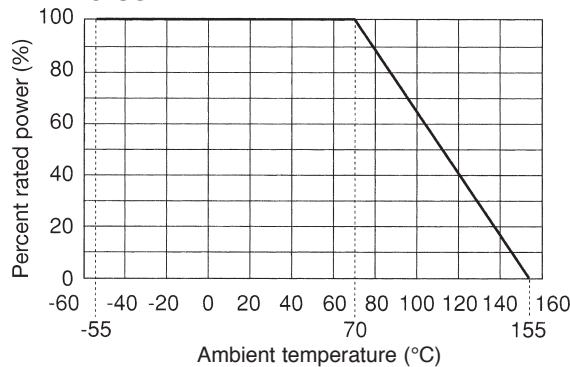
FEATURES

- Superior to RK73-series in maximum working voltage
- Higher critical R-value than standard RK73-series
- RuO₂ thick film resistor element
- Anti-leaching nickel barrier terminations
- Excellent heat resistance and moisture resistance are ensured by the use of metal glaze thick film
- Ideal for use in AV adapters, LCD backlight, camera strobe, electronic lighting ballast etc.
- Rated ambient temperature: +70°C
- Operating temperature range: -55°C...+155°C
- Meets or exceeds IEC 60115-8, JIS C 5201-8, EIAJ RC-2134B
- Suitable for reflow and wave soldering

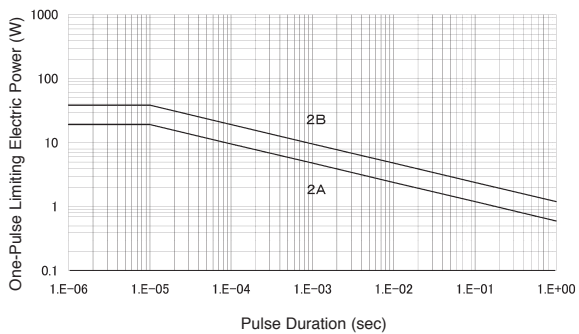
DIMENSIONS (mm)

SIZE	TYPE	L ±0.2	W	c	d	t ±0.1
0603	HV73 1J	1.6	0.8 ± 0.1	0.3 ± 0.1	0.3 ± 0.1	0.45
0805	HV73 2A	2.0	1.25 ± 0.1	0.4 ± 0.2	0.3 ^{+0.2} _{-0.1}	0.5
1206	HV73 2B	3.2	1.6 ± 0.2	0.5 ± 0.3	0.4 ^{+0.2} _{-0.1}	0.6
2010	HV73 2H	5.0	2.5 ± 0.2			
2512	HV73 3A	6.3	3.1 ± 0.2			

DERATING CURVE



ONE-PULSE LIMITING ELECTRIC POWER



RATING

SIZE	TYPE	T.C.R. (ppm/K)	POWER* RATING	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE**	RESISTANCE RANGE (E24)			
						D (±0.5%)	F (±1%)	G (±2%)	J (±5%)
0603	HV73 1J	± 100***	0.1 W	350 V	500 V (DC)	—	10 kΩ ... 10 MΩ	10 kΩ ... 10 MΩ	10 kΩ ... 10 MΩ
0805	HV73 2A	± 100	0.125 W	400 V	800 V (DC)	100 kΩ ... 1 MΩ	100 kΩ ... 10 MΩ	100 kΩ ... 10 MΩ	100 kΩ ... 10 MΩ
1206	HV73 2B	± 200	0.25 W	500 V	1000 V (DC)	—	—	—	11 MΩ ... 51 MΩ
		± 100				100 kΩ ... 1 MΩ	100 kΩ ... 10 MΩ	100 kΩ ... 10 MΩ	100 kΩ ... 10 MΩ
2010	HV73 2H	± 100	0.5 W	2000 V (DC)	3000 V (DC)	—	—	—	11 MΩ ... 51 MΩ
		± 200				100 kΩ ... 1 MΩ	100 kΩ ... 10 MΩ	100 kΩ ... 10 MΩ	100 kΩ ... 10 MΩ
2512	HV73 3A	± 100	1 W	3000 V (DC)	4000 V (DC)	43 kΩ ... 1 MΩ	43 kΩ ... 10 MΩ	43 kΩ ... 10 MΩ	43 kΩ ... 10 MΩ
		± 200				—	11 MΩ ... 20 MΩ	11 MΩ ... 20 MΩ	11 MΩ ... 51 MΩ

* For resistors operated at an ambient temperature of +70°C or above, the power rating shall be derated in accordance with the above derating curve.
 ** Max. overload voltage is specified by D.C. voltage. When using in A.C. voltage, the peak value of A.C. voltage shall not exceed the maximum overload voltage.
 *** In the ohmic range between 1.1 MΩ...10 MΩ the specified T.C.R. is ±200 ppm/K in the temperature range -55°C...+25°C. At temperatures +25°...+125°C the T.C.R. is specified with ±100 ppm/K.

Rated voltage = √ Power rating x resistance value or max. working voltage, whichever is lower.

PREFERRED TOLERANCES

Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order or use.