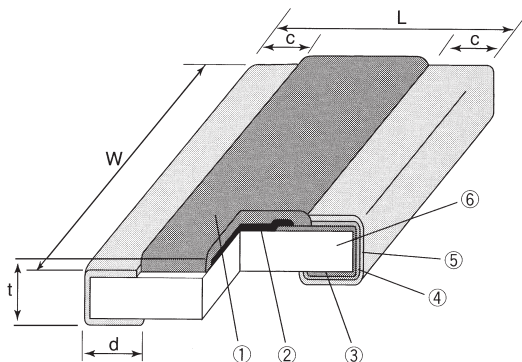
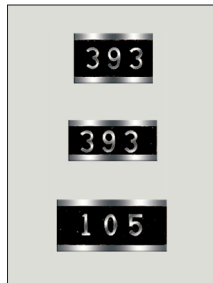


## FLAT CHIP THICK FILM WIDE TERMINAL WK 73



### STRUCTURE

- 1 Protective coating
- 2 Resistive element  
WK73R: RuO<sub>2</sub>  
WK73S: Low range resistive element
- 3 Inner electrode
- 4 Nickel plating (Ni)
- 5 Solder plating (Sn)
- 6 Alumina substrate (Al<sub>2</sub>O<sub>3</sub> 96%)

### IDENTIFICATION

TYPE	COATING COLOR	MARKING
WK73	Black	White (3 digits)

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

### TYPE DESIGNATION (HOW TO ORDER)

WK73R	3A	T	TE	102	J
PRODUCT CODE WK73S (10 mΩ...9.1 Ω) WK73R (10 Ω...1 MΩ)	POWER RATING 2B: 0.75 W 2H, 2J: 1.0 W 3A: 1.5 W	TERMINAL MATERIAL T: Sn	TAPING* TD: 4mm pitch punch paper 7" TE: 4mm pitch plastic embossed 7" BK: Bulk	NOMINAL RESISTANCE F: 4 digits J: 3 digits	RESISTANCE TOLERANCE F: (±1%) J: (±5%)

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

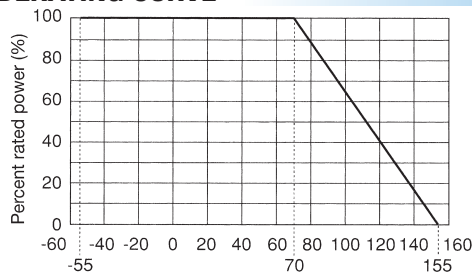
### FEATURES

- Enhanced terminal strength because of wide electrodes
- Lower thermal expansion stress compared to other flat chip resistors
- High power rating
- RuO<sub>2</sub> thick film resistive element for WK73R
- Special low range resistive element for WK73S
- High reliability and performance with T.C.R. ±100ppm/K and resistance tolerance ±1%
- Anti-leaching nickel barrier terminations
- Excellent mountability and solderability
- Ideal for use in power supplies, inside an ECU in engine rooms, etc.
- Parts are tested according to AEC-Q200 requirements in sizes 1020...1225
- Meets or exceeds IEC 60 115-8, JIS C 5201-8, EIAJ RC-2134B
- Rated ambient temperature: +70°C
- Operating temperature range: -55°C...+155°C
- Suitable for reflow and wave soldering

### DIMENSIONS (mm)

SIZE	TYPE	L	W	c	d	t
0612	WK73 2B	1.6 ± 0.15	3.2 ± 0.15	0.3 ± 0.2	0.45 ± 0.15	0.6 ± 0.1
1020	WK73 2H	2.5 ± 0.15	5.0 ± 0.15	0.4 ± 0.2	0.75 ± 0.15	
1218	WK73 2J	3.1 ± 0.15	4.6 ± 0.15	0.45 ± 0.2		
1225	WK73 3A		6.4 ± 0.15			

### DERATING CURVE



### RATING

SIZE	TYPE	T.C.R. (ppm/K)	POWER* RATING	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	RESISTANCE RANGE	
						F (±1%) • E24	J (±5%) • E24
0612	WK73S 2B	± 800	0.75 W	200 V	400V	-	10 mΩ ... 27 mΩ
		± 200				30 mΩ ... 390 mΩ	
		± 100				430 mΩ ... 9.1 Ω	
1020	WK73R 2B	± 100	1.0 W	200 V	400V	10 Ω ... 3.3 kΩ	10 Ω ... 3.3 kΩ
		± 100				3.6 kΩ ... 1 MΩ**	
		± 800				10 mΩ ... 24 mΩ	
1218	WK73S 2H	± 200	1.5 W	200 V	400V	27 mΩ ... 200 mΩ	27 mΩ ... 200 mΩ
		± 100				220 mΩ ... 9.1 Ω	
		± 100				10 Ω ... 430 kΩ	
1218	WK73R 2H	± 200	1.5 W	200 V	400V	470 kΩ ... 1 MΩ	470 kΩ ... 1 MΩ
		± 800				10 mΩ ... 30 mΩ	
		± 200				33 mΩ ... 220 mΩ	
1225	WK73S 2J	± 200	1.5 W	200 V	400V	240 mΩ ... 9.1 Ω	240 mΩ ... 9.1 Ω
		± 100				10 Ω ... 510 kΩ	
		± 100				560 kΩ ... 1 MΩ	
1225	WK73R 2J	± 200	1.5 W	200 V	400V	10 mΩ ... 20 mΩ	10 mΩ ... 20 mΩ
		± 800				22 mΩ ... 30 mΩ	
		± 300				33 mΩ ... 330 mΩ	
1225	WK73S 3A	± 200	1.5 W	200 V	400V	360 mΩ ... 9.1 Ω	360 mΩ ... 9.1 Ω
		± 100				10 Ω ... 330 kΩ	
		± 100				360 kΩ ... 1 MΩ	
1225	WK73R 3A	± 200	1.5 W	200 V	400V	10 Ω ... 330 kΩ	10 Ω ... 330 kΩ
		± 100				360 kΩ ... 1 MΩ	
		± 200				360 kΩ ... 1 MΩ	

Rated voltage =  $\sqrt{\text{Power rating} \times \text{resistance value}}$  or max. working voltage, whichever is lower.

\*For resistors operated in ambient temperature over +70°C, power rating shall be derated like shown in above „DERATING CURVE“.

\*\* Under Development

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.