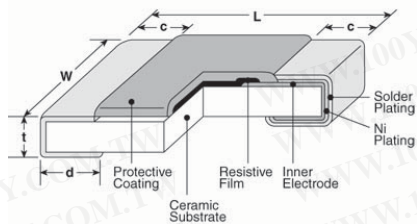


# Resistors & Potentiometers

## 0402 Chip Resistors -(1/16W)

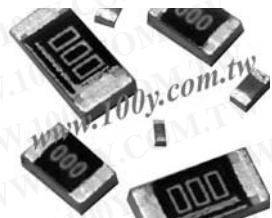
Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



### DIMENSIONS AND CONSTRUCTION

Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
1E (0402)	.039 <sup>+0.004</sup> <sub>-.002</sub> (1.0 <sup>+0.1</sup> <sub>-0.05</sub> )	.02±.002 (0.5±0.05)	.008±.004 (0.2±0.1)	.01 <sup>+0.002</sup> <sub>-.004</sub> (0.25 <sup>+0.05</sup> <sub>-0.1</sub> )	.014±.002 (0.35±0.05)

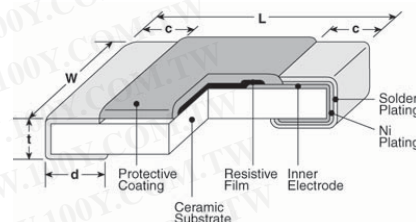
Part No.	Product No.	Description	Resistance data(Ω)	Tolerance(±)	Package
41586	RK73H1ETTP7872F	Precision 0.5%, 1% tolerance thick film chip resistor	100Ω	±1%	2mm pitch punched paper



- Silver element
- Anti-leaching nickel barrier terminations
- Meets or exceeds EIA 575, EIAJ RC 2690A, EIA PDP-100, MIL-R-55342F
- Marking: White "000" on black protective coat 1H and 1E sizes are green with no marking 1J has white "0" marking
- Products with lead-free terminations meet RoHS requirements. Pb located in glass material, electrode and resistor element is exempt per Annex 1, exemption 5 of EU directive 2005/95/EC

### DIMENSIONS AND CONSTRUCTION

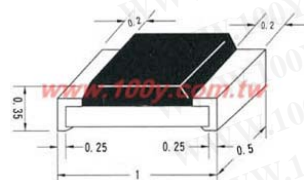
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### APPLICATIONS AND RATINGS

Part Designation*	Maximum Continuous current @ 70°C	Maximum Surge current @ 70°C	Maximum Resistance	Operating Temperature Range
RK73Z1E RK73Z1J	1.0 Amps	2 Amp Max. for < 1 second	50mΩ	-55°C to +155°C

Part No.	Product No.	Description	Resistance data(Ω)	Package
41573	RK73Z1ETTP	Zero ohm jumper chip resistor	50mΩ	2mm pitch punched paper



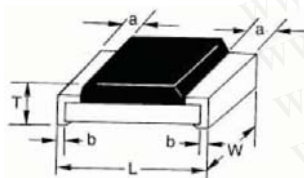
### FEATURES

The chip resistor is metal glazed thick film on high purity ceramic substrate and by protective glass paste, it provides uniform quality and stable characteristic. Latest automated system plus high technology enable us to turn out quality product with competitive price.

- High reliability and stability
- Lower assembly costs
- Reduced size of final equipment
- Higher component and equipment reliability

### Description

The resistors are constructed in a high grade ceramic body (aluminum oxide). Internal metal electrodes are added at each end and connected by a resistive paste that is applied to the top surface of the substrate. The composition of the paste is adjusted to give the approximate resistance required and the value is trimmed to within tolerance by laser cutting of this resistive layer. The resistive layer is covered with a protective coat. Finally, the two external terminations are added. For ease of soldering the outer layer of these end terminations is a Lead-tin or Tin solder alloy.



STYLE	DIMENSIONS : (mm)				
	L	W	a	b	T
0402	1.00±0.10	0.50±0.05	0.20±0.10	0.25±0.10	0.35±0.05

### HARACTERISTICS

TEST ITEM	DESCRIPTION	TEST METHODS
Temperature Coefficient Of resistance	Temp: -55°C~±125°C Requirement: 5%1Ω~10Ω ≤±400PPM/°C 11Ω~≤200PPM/°C 1%10Ω~1mΩ≤±100ppm/°C	JIS C 5202.....clause 5.2 Natural resistance change per temperature degree centigrade. R2-R1 / (t2-t1) *10 <sup>6</sup> (PPM/°C)
		JIS C 5202.....clause 5.5 Permanent resistance change after the application of a potential of 2.5 time RCWV. Or the max. Over load voltage respectively specified in the above list, whichever less for 5 secs
Short-Time Over load	(WV)=√WR On5secs Requirement:(2.0%±0.1Ω)	JIS C 5202.....clause 5.5 Permanent resistance change after the application of a potential of 2.5 time RCWV. Or the max. Over load voltage respectively specified in the above list, whichever less for 5 secs
Strength Bending	Y/X=5/ FOR 10secs Requirement: (1.0%±0.05Ω)	JIS C 5202.....clause Bending Test : y/x= / 1 time

