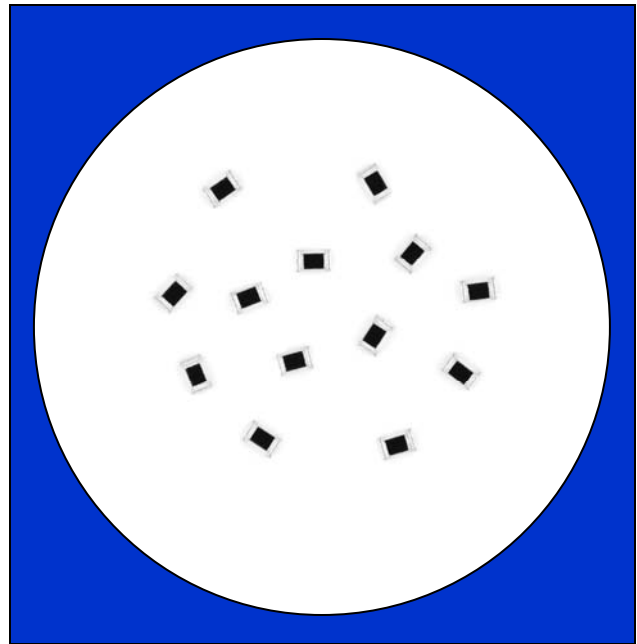


## FEATURES

- Ultra High Resistance ( $\leq 100G\ \Omega$ )
- Surface Mount Package
- Compatible With Solder Reflow
- Tape and Reel Packaging
- Operating Temperature Range:  $-55^{\circ}C$  to  $+125^{\circ}C$
- RoHS Compliant

## DESCRIPTION

These devices are used in high input impedance quartz amplifiers, low temperature sensing applications and testing devices.



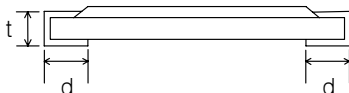
## ELECTRICAL SPECIFICATIONS

Type	Size Code	Tolerance (%)	Resistance E-6 Series Standard (m $\Omega$ )	T.C.R (25°C-125°C) (ppm/°C)	V.C.R (5-15V) (%/V)	Max. Working Voltage (V)	Max. Overload Voltage (V)
73U3	0805 (2012)	K: $\pm 10$ M: $\pm 20$ N: $\pm 30$ H: $\pm 50$	33M - 68M	0 to -500	0 to -0.1	15	150
			100M - 680M	0 to -1000	0 to -0.5		
			1G - 100G	0 to -3500	0 to -5.0		

## MECHANICAL AND LABELING SPECIFICATIONS



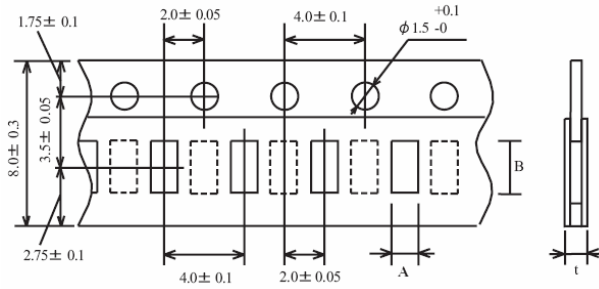
Dimensions (mm)	L	W	c	d	t
73U3	2.00 $+0.20$ $-0.10$	1.25 $+0.20$ $-0.10$	0.40 $\pm 0.20$	0.40 $\pm 0.2$	0.50 $+0.15$ $-0.05$



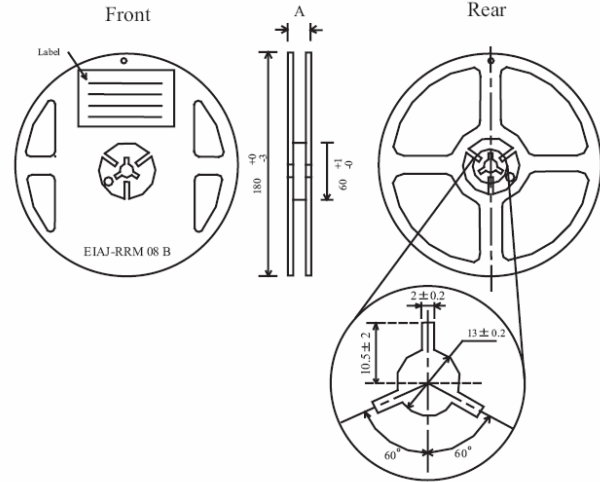
(No Part Marking)

## PACKAGING INFORMATION

### Paper Tape Dimension



### Reel Dimension

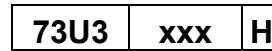


Type	A	B	t
73U3	1.65 ± 0.20	2.40 ± 0.20	0.8 ± 0.20

Type	Size code	Qty/Reel	A (mm)
73U3	0805 (2012)	5,000	11.5 ± 1.1

## ORDERING INFORMATION

### Part Number Structure:



Product Type

Resistor Code

Tolerance

K = ±10%

M = ±20%

N = ±30%

H = ±50%

#### 3 Digit Resistor Code

Examples: 336 = 33 Million Ohms  
109 = 10 Giga Ohms

First two digits are significant; last digit represents the number of trailing zeros. Example: 73U3109H

## Resistance Values (Based on EIA E6 Sequence)

Resistor Value	Resistor Code	Resistor Value	Resistor Code	Resistor Value	Resistor Code	Resistor Value	Resistor Code
33MΩ	336	330MΩ	337	3.3GΩ	338	33GΩ	339
47MΩ	476	470MΩ	477	4.7GΩ	478	47GΩ	479
68MΩ	686	680MΩ	687	6.8GΩ	688	68GΩ	689
100MΩ	107	1.0GΩ	108	10GΩ	109	100GΩ	10A
150MΩ	157	1.5GΩ	158	15GΩ	159		
220MΩ	227	2.2GΩ	228	22GΩ	229		