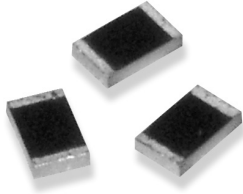


## Type RP73 Series

### Type RP73 Series



The RP73 Resistor series is a stable Thin Film chip resistor range offering increased power dissipation, higher temperature capabilities and increased working voltages compared to the standard RN73 series.

The resistor is produced by sputtering a metal film onto high grade alumina and protecting with 3 complete printed layers.

Values are normally offered in E96 and E24 series.

The RP73 Resistor has accurate and uniform physical dimensions to reduce placement problems.

Due to special technologies employed to produce tight tolerances, low TCR devices at high values the RP73 series is not individually part marked.

### Key Features

- High Precision - Tolerances down to 0.05%
- Low TCR - Down to 5ppm/C
- Stable High Frequency Performance
- Operating Temperature -55C ~ +155C
- Increased Power Rating - Up to 1.0W
- 200V DC Operating Voltage
- Range of Packaging options

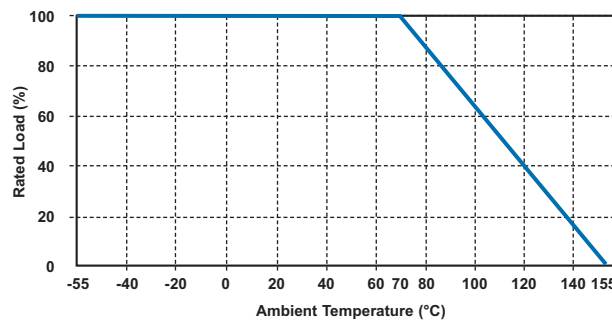
### Characteristics - Electrical

	0603 (1J)	0805 (2A)	1206 (2B)	2010 (2H)	2512 (3A)
Rated Power	0.1W	0.125W	0.25W	0.50W	1.0W
Maximum Working Voltage	50V	150V	200V	200V	200V
Maximum Overload Voltage	100V	300V	400V	400V	400V
Working Temperature Range	-55C - +155C				
Rated Ambient Temperature	70°C				

### Characteristics - Resistance Value Range

Package Size	Package Code	TCR (ppm/°C)	Resistance Range E-24, E-96 Series	Tolerance %
0603	1J	5ppm	49R9 ~ 8K0	0.05%, 0.1%, 0.5%, 1%
		10/15 ppm	25R ~ 100K	0.05%
		10/15/25/50 ppm	4R7 ~ 332K	0.1%, 0.5%, 1%
0805	2A	5ppm	49R9 ~ 16K	0.05%, 0.1%, 0.5%, 1%
		10/15 ppm	25R ~ 200K	0.05%
		10/15/25/50 ppm	4R7 ~ 499K	0.1%, 0.5%, 1%
1206	2B	5ppm	49R9 ~ 30K	0.05%, 0.1%, 0.5%, 1%
		10/15 ppm	25R ~ 499K	0.05%
		10/15/25/50 ppm	4R7 ~ 1M0	0.1%, 0.5%, 1%
2010	2H	5ppm	49R9 ~ 30K	0.05%, 0.1%, 0.5%, 1%
		10/15 ppm	25R ~ 499K	0.05%
		10/15/25/50 ppm	4R7 ~ 1M0	0.1%, 0.5%, 1%
2512	3A	5ppm	49R9 ~ 50K	0.05%, 0.1%, 0.5%, 1%
		10/15 ppm	25R ~ 499K	0.05%
		10/15/25/50 ppm	4R7 ~ 1M0	0.1%, 0.5%, 1%

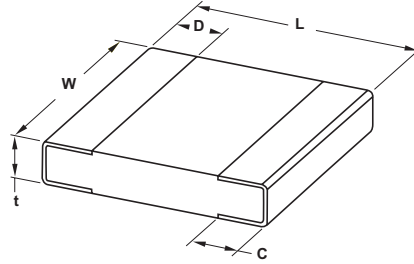
### Power Derating Curve



For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with this curve.

Type RP73 Series

Dimensions



Part Number	L ±0.2	W ±0.2	C	D+0.2/-0.1	t ±0.1
RP73 1J	1.6	0.8	0.3 +/- 0.2	0.3	0.4
RP73 2A	2.0	1.25	0.4 +/- 0.2	0.3	0.5
RP73 2B	3.2	1.6	0.5 +/- 0.2	0.4	0.6
RP73 2H	4.9	2.4	0.6 +/- 0.2	0.5	0.6
RP73 3A	6.3	3.1	0.6 +/- 0.2	0.5	0.6

Solderability - 235°C 2 seconds  
 DIN IEC 68T2 - 20 Ta Meth. 1  
 Max Soldering Temperature - 260°C 10 seconds  
 DIN IEC 68 T2 - 20, Tb Meth. 1A

Handling Recommendations

When flow soldering - the land width must be smaller than the chip resistor width to properly control the solder application. Generally, the land width can be chip resistor width (W) x 0.7 to 0.8. When reflow soldering - solder application amount can be adjusted. Thus the land width can be set to W x 1.0 to 1.3.

How to Order

RP73	C	2A	1K0	B	TN
Common Part	Temp. Coefficient	Package Size	Resistor Value	Tolerance	Packaging
RP73 - SMD Precision High Power, High Temperature	A - ±5ppm/°C C - ±10ppm/°C D - ±15ppm/°C F - ±25ppm/°C G - ±50ppm/°C	1J - 0603 2A - 0805 2B - 1206 2H - 2010 3A - 2512	100R (100 ohms) 1K0 (1000 ohms) 10K (10,000 ohms) 100K (100,000 ohms) 1M0 (1,000,000 ohms)	A - ±0.05% B - ±0.1% D - ±0.5% F - ±1%	TG - Cut Tape (250 pcs) TDF - Reel (1000 pcs) TD - Reel (5000 pcs)