

Type RQ73 Series

Key Features

SMD TaN Thin film resistor

Special passivation layer on resistive element

AEC-Q200 qualified

Sulfur resistant (per ASTM B809-95 humid vapor test)

RoHS Compliant



TE Connectivity is proud to introduce this automotive grade thin film precision chip resistor, a sister to our highly successful RN73 range. The resistors are constructed in a high grade raw materials and laser trimmed to give precise tolerance figures. This, coupled with the tight TCR and anti-corrosive protector layer gives us a range of resistors which are ideal not just for automotive applications, but also for medical equipment, measuring instruments and industrial applications.

Characteristics – Electrical

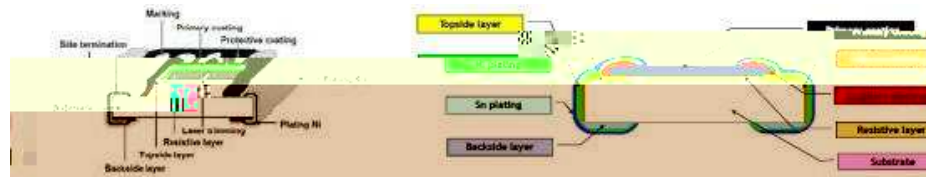
Type	RQ73 1E	RQ73 1J	RQ73 2A	RQ73 2B
Size	0402	0603	0805	1206
Resistance tolerance	±0.1%			
Resistance Range	40R ~ 35K	40R ~ 130K	10R ~ 350K	10R ~ 1M0
TCR (ppm/°C)	±10PPM/°C			
Max. dissipation at Tamb=85°C	0.0625W	0.15W	0.2W	0.4W
Max. Working Voltage (DC or RMS) ^{1 2}	50V	75V	100V	200V
Max. Overload Voltage (DC or RMS)	100V	150V	200V	400V
Operating Temperature	-55 ~ 155°C			

Notes:

- This is the maximum voltage that may be continuously supplied to the resistor
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- Max. Operation Voltage : So called RCWV (Rated Continuous Working Voltage) determined by

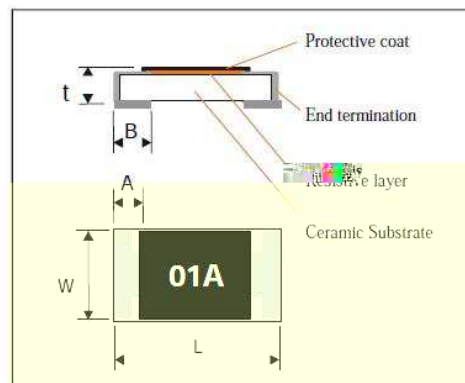
$$RCWV = \frac{\text{Rated Power} \times \text{Resistance Value}}{\text{Resistance Value}} \text{ or Max. RCWV listed above, whichever is lower.}$$

Construction

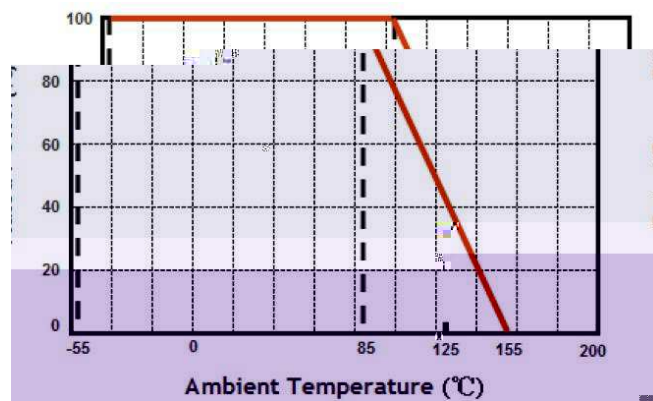


Dimensions: (mm)

Type	RQ73 1E	RQ73 1J	RQ73 2A	RQ73 2B
L	1.00 ± 0.10	1.55 ± 0.10	2.00 ± 0.10	3.10 ± 0.10
W	0.50 ± 0.05	0.80 ± 0.10	1.25 ± 0.10	1.60 ± 0.10
A	0.25 ± 0.15	0.3 ± 0.20	0.35 ± 0.20	0.40 ± 0.20
B	0.30 ± 0.10	0.30 ± 0.15	0.40 ± 0.20	0.40 ± 0.20
t	0.30 ± 0.10	0.45 ± 0.15	0.50 ± 0.15	0.60 ± 0.15



Derating Curve





Environmental Characteristics

Test	Procedure	Requirement
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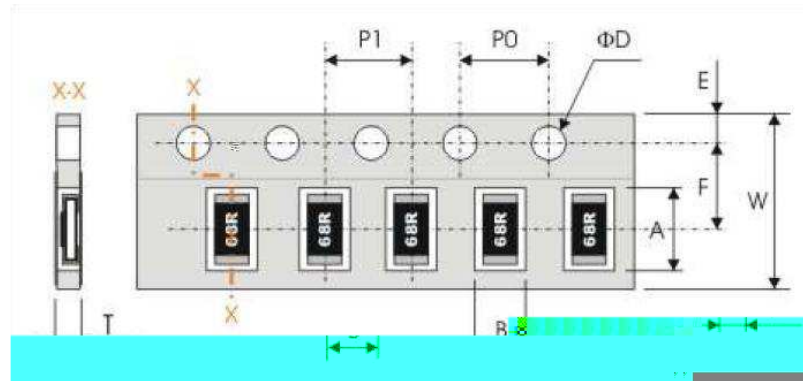


Marking:

0603

Packaging

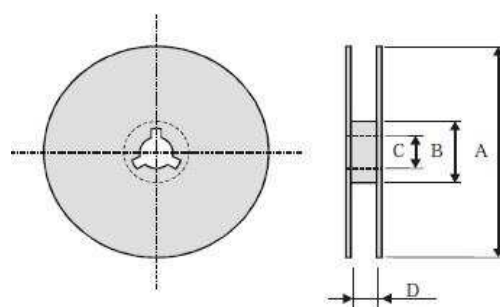
Paper Tape Specification (mm)



Size	A	B	W	F	E
0402	1.20±0.10	0.7±0.10	8.00±0.30	3.50±0.05	1.75±0.10
0603	1.90±0.20	1.10±0.20	8.00±0.30	3.50±0.20	1.75±0.10
0805	2.40±0.20	1.65±0.20	8.00±0.30	3.50±0.20	1.75±0.10
1206	3.60±0.20	2.00±0.20	8.00±0.30	3.50±0.20	1.75±0.10

Size	P1	P0	ØD	T
0402	2.00±0.10	4.00±0.10	Ø1.50 ^{+0.1} / _{-0.0}	0.40±0.05
0603	4.00±0.10	4.00±0.10	Ø1.50 ^{+0.1} / _{-0.0}	0.65±0.05
0805	4.00±0.10	4.00±0.10	Ø1.50 ^{+0.1} / _{-0.0}	Max. 1.0
1206	4.00±0.10	4.00±0.10	Ø1.50 ^{+0.1} / _{-0.0}	Max. 1.0

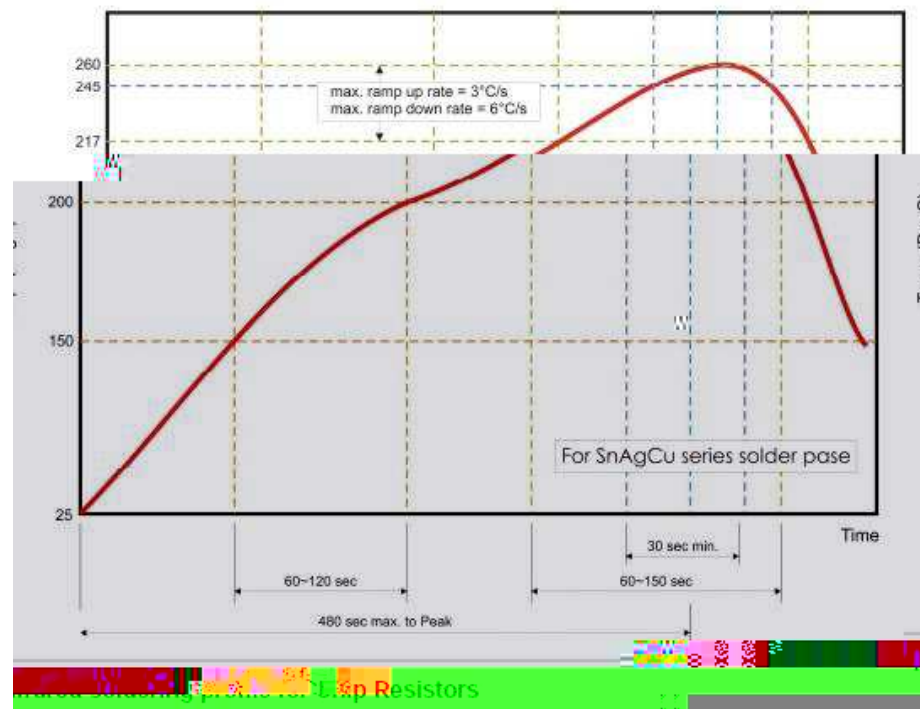
Reel Dimensions (mm)



Symbol	A	B	C	D
Dim. (mm)	Ø178.0±2.0	Ø60.0±1.0	13.0±0.2	9.0±0.5

All sizes 5,000 pieces per reel





How To Order

RQ73 C 1E 40R2 B TDF

Common Part	TCR	Size Code	Resistance Value	Tolerance	Packaging Spec.
RQ73	C = 10PPM/°C	1E = 0402 1J = 0603 2A = 0805 2B = 1206	100R 1K0 100K	B = .1%	TD = Reel 5000 TDF = Reel 1000