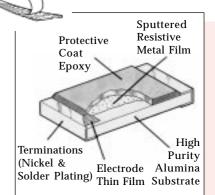
#### 20

### thin film precision chip

## **Key features**

- clear 4 digit marking
- thin film (nichrome)
- tcr's ±10ppm/°C, ±15ppm/°C, ±25ppm/°C
- tolerances ±0.1%, ±0.25%, ±0.5%
- reels 5000, 4000, 1000 or loose
- stable high frequency performance
- 100 Vdc operating
- temperature -55°C to +125°C



# SMD Resistors

#### type RN series

The RN73 is a stable precision chip resistor range offering various power dissipations relating to chip size, TCR's down to 10ppm/°C and resistor tolerances down to 0.1% The resistor is produced with three print layers for longer life and better performance. Meggitt Electronics are probably alone in offering full reels of just 1000 pieces in the 08:05 packge 0.1% tolerance types.

## **Specification**

#### **Electrical**

Resistance Value Range

Type	T.C.R.	Resistance tolerance E-24 & E96 series values				
	(ppm/°C)	(ohms)				
		B (±0.1%)	C (±0.25%)	D (±0.5%)	F (±1.0%)	
	C (±10)	100~100K	100~100K	100~100K	-	
2 A	F (±25)	100~100K	51~100K	10~100K	10~100K	
	G (±50)	-	51~150K	10~150K	10~150K	
	$H (\pm 100)$	-	-	160K~1M	160K~1M	
2B	C (±10) F (±25) G (±50) H (±100)	100~130K 100~130K - -	100~130K 51~130K 51~360K	100~130K 10~130K 10~360K 390K~1M	- 10~130K 10~360K 390K~1M	
2E	C (±10) F (±25) G (±50) H (±100)	100~240K 100~240K - -	100~240K 51~240K 51~510K	100~240K 10~240K 10~510K 560K~1M	- 10~240K 10~510K 560K~1M	

Package Size:	2A	2B	2E
Rated Power:	0.1W	0.125W	0.25W
Maximum Working Voltage:	100V	150V	200V
Maximum Overload Voltage:	200V	300V	400V
Working temperature range:	range: -55°C to +125°C		
Rated ambient temperature:	70°C		

sales action desk (01793) 611666 sales fax line (01793) 611777

#### **Environmental**

ITFM **CHARACTERISTICS** DC resistance value: Within allowance Short -time overload: C, F, G,  $\pm (0.1\% + 0.05 \text{ ohms})$ 

 $\pm (0.25\% + 0.05 \text{ ohms})$ 

More than 103 M ohms Insulation Resistance: Dielectric withstand voltage:  $\pm (0.1\% + 0.05 \text{ ohms})$ Resistance to solder heat: C. F. G.  $\pm (0.1\% + 0.05 \text{ ohms})$ 

> Н  $\pm (0.25\% + 0.05 \text{ ohms})$

Solderability: 95% Minimum Terminal strength:  $\pm (0.1\% + 0.05 \text{ ohms})$ 

Resistance to solvent: No damage and marking must

remain legible.

 $\pm (0.25\% + 0.05 \text{ ohms})$ Temperature Cycle:  $\pm (0.5\% + 0.05 \text{ ohms})$ Moisture Resistance (Load):

C, F, G,  $\pm (0.25\% + 0.05 \text{ ohms})$ Life:

 $\pm (0.5\% + 0.05 \text{ ohms})$ 

Room Temperature Exposure: C, F, G,  $\pm (0.1\% + 0.05 \text{ ohms})$  $\pm (0.2\% + 0.05 \text{ ohms})$ 

C, F, G, H relate to T.C.R.

TEST METHOD (JIS C 5202)

Item 5.1 Condition A Item 5.5 Condition A 2.5 x RCWV for 5 seconds Item 5.6 500V DC

Item 5.7 500V DC 60±10 seconds

Item 6.4 260°C  $\pm$  5°C 10 $\pm$ 1 second

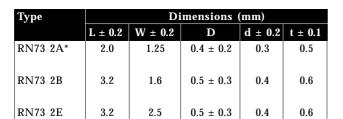
Item 6.4 235°C ±5C 3±0.5 second Item 6.1.4 3mm deflection in either

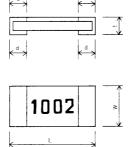
direction for 10 seconds Item 6.9 condition A

1 Year  $\pm \frac{1}{2}$  day 25  $\pm 10^{\circ}$ C

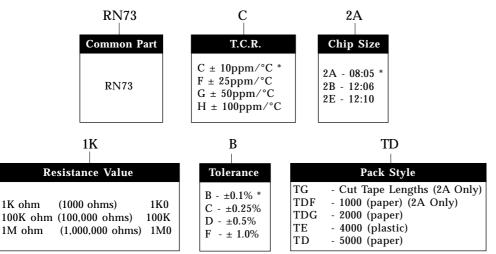
Item 7.4 -55°C/+125°C 5 cycles Item 7.9 40 ± 2° 90~95% RH 1000 Hours Item 7.10 70  $\pm$  3°C 1000 Hours

**Dimensions** 





## **How To Order**



\* Preferred Stock Item

**SMD Resistors** 

## type RN series

The RN73 has accurate and uniform physical dimensions to reduce placement problems. Values are restricted to the E96 grid. They are of course packaged on tape and reeled. Each resistor is individually part marked. The 08:05 chip is available in 0.1% 10ppm/°C from stock at all major UK catalogue distributors, in large or small quantities

Packaging: 1000 Pieces (7" Reel) 08:05 only 2000 Pieces (7" Reel) 4000 Pieces (7" Reel) 5000 Pieces (7" Reel)

> Please Request Full Data Sheet F0720

