

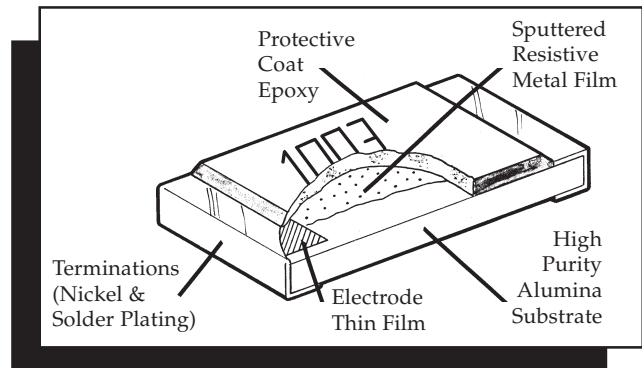
**MEGGITT HOLSWORTHY**  
**ELECTRONIC ASSEMBLIES**  
**PRECISION RESISTORS**  
**SMD PRECISION RESISTORS**  
**PRECISION NETWORKS**

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## High Precision Resistors (SMD)

### **TYPE RN73 SERIES**

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The RN73 series is a high stability precision chip resistor range offering various power dissipation relating to chip size, TCR's down to 5ppm/°C and resistor tolerances to 0.1%. The resistor is produced with three sputtered layers giving better performance. Values are restricted to the E96 and E24 value grids. The RN73 has accurate and uniform physical dimensions to facilitate placement. They are of course packaged on tape and reeled.

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### **MEGGITT HOLSWORTHY** **KEY FEATURES**

- HIGH PRECISION - TCR 5ppm/°C and 10ppm/°C
- TOLERANCE OF 0.1%
- THIN FILM (NICHROME)
- CHOICE OF PACKAGES (0805 STD)
- SUPPLIED ON REELS OF 5000 or 1000
- STABLE HIGH FREQUENCY PERFORMANCE
- 100V DC OPERATING VOLTAGE
- TEMPERATURE RANGE -55°C to +125°C

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**MEGGITT ELECTRONIC  
COMPONENTS LTD**

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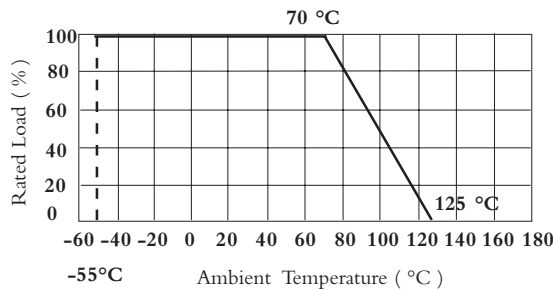
**ELECTRICAL**

|                           | 0603 (1J)      | 0805 (2A) | 1206 (2B) |
|---------------------------|----------------|-----------|-----------|
| Rated Power               | 0.063W         | 0.1W      | 0.125W    |
| Maximum working voltage   | 50V            | 100V      | 150V      |
| Maximum overload voltage  | 100V           | 200V      | 300V      |
| Working temperature range | -55°C ~ +125°C |           |           |
| Rated ambient temperature | 70°C           |           |           |

**RESISTANCE VALUE RANGE**

| Package Size | Package Code | T.C.R. (ppm/°C) | Resistance Tolerance E-24, E-96 series |
|--------------|--------------|-----------------|--|
| 0603         | 1J           | C (± 10)        | 10R - 49K9                             |
| 0805         | 2A           | A (± 5)         | 10R - 150K                             |
| 0805         | 2A           | C (± 10)        | 10R - 150K                             |
| 1206         | 2B           | A (± 5)         | 10R - 470K                             |
| 1206         | 2B           | C (± 10)        | 10R - 470K                             |

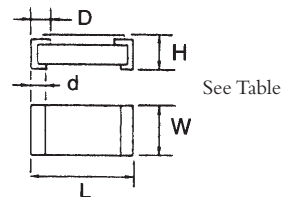
**POWER DERATING CURVE**



For temperatures in excess of 70°C the load shall be derated in accordance with the following figure.

**DIMENSIONS**

| Type     | L ± 0.2 | W ± 0.2 | D         | d ± 0.1 | H ± 0.1 |
|----------|---------|---------|-----------|---------|---------|
| RN73 1J  | 1.6     | 0.8     | 0.3 ± 0.2 | 0.3     | 0.4     |
| RN 732A* | 2.0     | 1.25    | 0.4 ± 0.2 | 0.3     | 0.5     |
| RN 732B  | 3.2     | 1.6     | 0.5 ± 0.3 | 0.4     | 0.6     |



**HOW TO ORDER**

| COMMON PART               | TEMP. COEFFICIENT OF RESISTANCE    | CHIP SIZE                            | RESISTANCE VALUE   | TOLERANCE           | PACK QTY   |
|---------------------------|------------------------------------|--------------------------------------|--|---------------------|--|
| RN73 - Series Part Number | A - ± 5 ppm/°C<br>C - ± 10 ppm/°C* | 1J - 0603<br>2A - 0805*<br>2B - 1206 | 100 ohms (100 ohms)<br>1 K ohm (1000 ohms)<br>100 K ohm (100,000 ohms) | 100R<br>1K0<br>100K | B ± 0.1%<br><br>TG - Cut tape lengths (2A only)<br>TDF - 1000 (Paper) (2A Only)<br>TD - 5000 (Plastic) |

\* Preferred - Stocked Item