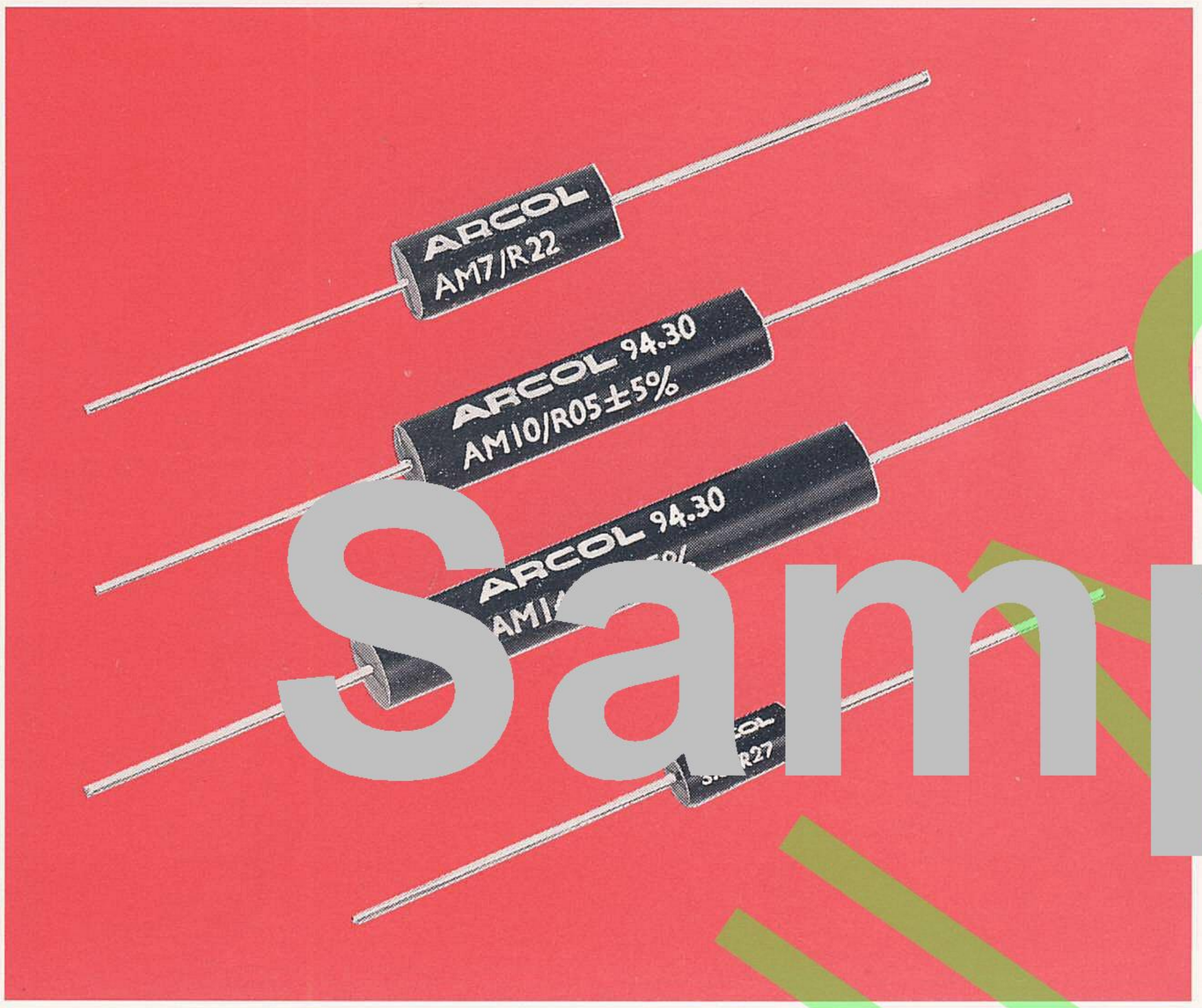
ARCOL

Issue 200/2

AM MOULDED POWER WIREWOUND RESISTORS

SERIES AM



- **Resistance range RO1 to 33K**
- **Tolerances to ± 1%**
- **All welded construction**
- **Low inductance windings available – Type NAM**

Materials:

Core: High alumina ceramic

Element: CuNi or NiCr – alloy, depending on resistance value

End Caps: Ni Fe

Construction: All welded Epoxy-moulded

Temperature coefficient: typically <10 ppm/°C, max. 50ppm/°C

Temperature range –55 to +200 °C

Insulation-Resistance: (dry) > 100 M at .500 VDC

Stability: Typically 5% max. ΔR in 2000 hrs at max. rating at 70°C

Manufacturing conforms to: EN 29001 (ISO 9001)

Tolerances:

Min – RO99 ±10%, RI – max. ± 5%, IR – max ± 1%

	Watts at 20°C	Resistance range ohms	Limiting element voltage DC/AC RMS	Length max. mm	Diam. max. mm	Measuring distance	Weight approx. g
AM 3.5	3	R01.....4k7	100	12.7	6.0	31.8	2.2
AM 7	5	R01.....10k	200	22.2	8.6	41.3	2.7
AM10	7	R05.....22k	500	38.1	8.6	57.2	5.0
AM 14	10	R1 .....33k	750	54.0	8.6	73.0	6.5
NAM 3.5	3	R01.....1k2	70	12.7	6.0	31.8	2.2
NAM 7	5	R01.....2k5	140	22.2	8.6	41.3	2.7
NAM 10	7	R05.....5k5	350	38.1	8.6	57.2	5.0
NAM 14	10	R1 .....8k25	525	54.0	8.6	73.0	6.5

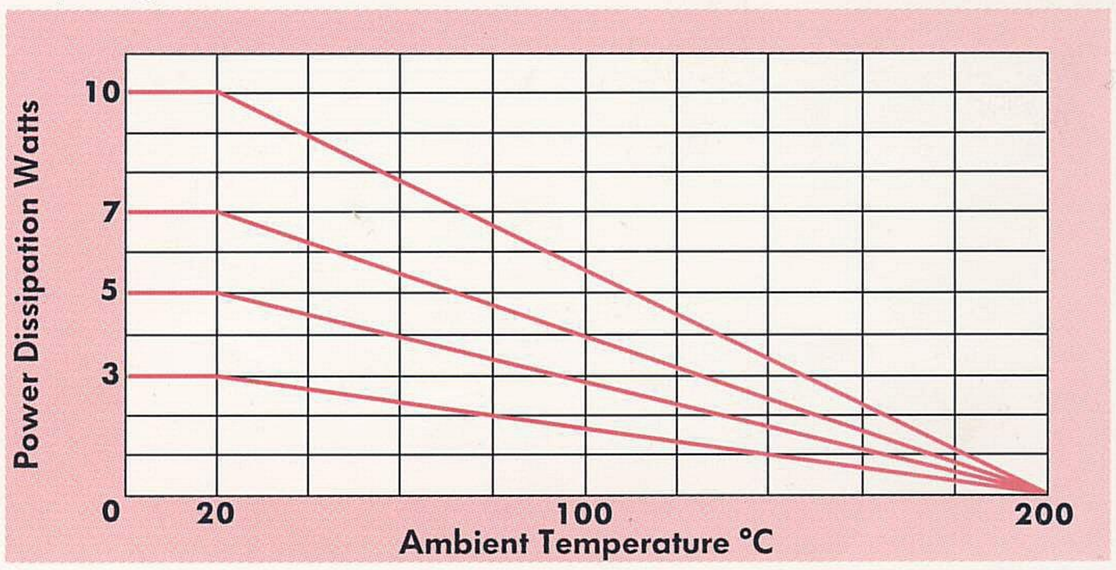
Application Notes:

It is essential for type AM that the maximum hot spot temperature of 225 °C is not exceeded. For the NAM type the maximum hot spot temperature is 150 °C.

AM = Standard-windings
NAM = Low-inductance-windings

Graph 1:
Variation of hot spot temperature against Power Dissipation

Graph 2: Power-rating
Based on a 200 °C maximum surface temperature, in free air over ambient temp. range of –55 °C to + 200 °C



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ARCOL UK LTD

Sample