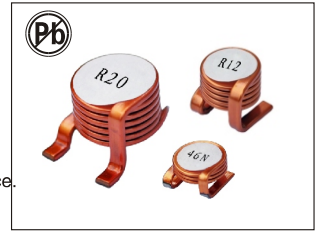


AIR CORE COIL, HIGH CURRENT POWER INDUCTOR RC1010 SERIES

Our RC high-current, high-power air core inductors can handle up to 57 Amps with no core loss. Their size results in excellent Q factors – up to 230 at 400 MHz. Inductance values range from 23.5 nH to 146 nH, all with $\pm 20\%$ tolerance. High-reliability versions are available for space, military, and other critical applications.

- Compact size using flat wire
- High current, high frequency power inductors
- Excellent Q factors – up to 230 at 400 MHz
- Current handling as high as 18 Amps
- RoHScompatible.

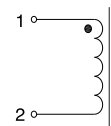
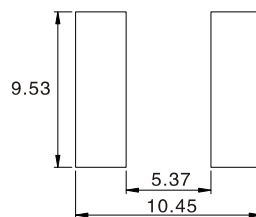
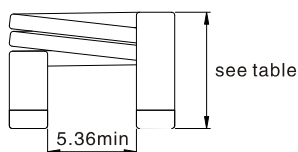
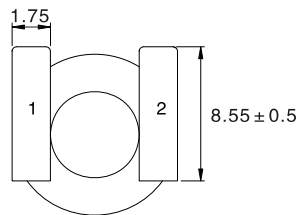
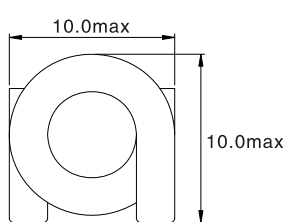


ELECTRICAL CHARACTERISTICS@25°C

Part No.	Inductance (nH) $\pm 20\%$	DCR (m Ω)Max	Quality factor		SRF (MHz)	Temperature rise 20°C current (A)Max	Temperature rise 40°C current (A)Max	Height (mm)Max
			Q	MHz				
RC1010-23NM	23.5	1.2	95	100	923	18.0	26.0	3.6
RC1010-46NM	46.5	1.6	150	100	526	17.9	25.5	4.1
RC1010-79NM	79.0	2.1	135	50	386	17.8	25.0	4.8
RC1010-R11M	111.0	2.7	150	50	382	15.7	22.0	5.6
RC1010-R14M	146.0	3.3	140	50	433	14.1	19.3	6.1

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



LAND PATTERNS

- Inductance is measured with a LCR meter 4284A or equivalent. Test frequency at 1MHz/0.1V
- DC resistance is measured with 16502 Milliohm Meter, or equivalent. Reference ambient temperature 25°C
- Q measured at the specified frequency using HP4991A impedance analyzer or equivalent.
- SRF measured using HP4991A impedance analyzer or equivalent.
- Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute max. ratings.
- Operatingtemperature:-40°C~+220°C.Including self temperature rise.

INDUCTANCE VS FREQUENCY

