

BOURNS®

Figure 1 is a log-log plot showing Core Loss (mW) versus Flux Density B_{p-p} (gauss). The y-axis ranges from 0.01 to 10000 mW, and the x-axis ranges from 10 to 1000 gauss. The plot displays eight lines representing different frequencies, showing that core loss increases with both flux density and frequency.

Frequency (Hz)	Line Color	Approx. Core Loss at 100 gauss (mW)	Approx. Core Loss at 500 gauss (mW)
1 MHz	Orange	100	1000
800 KHz	Blue	30	600
500 KHz	Purple	10	1000
400 KHz	Green	5	1500
300 KHz	Red	2	1000
200 KHz	Dark Blue	1	500
100 KHz	Yellow	0.5	200
40 KHz	Dark Red	0.2	100

Technical drawing of a 1R0 component showing top, side, and end views with dimensions in inches and millimeters.

Top View Dimensions:

- Overall diameter: 330 ± 0.5 (12.99)
- Inner diameter: 21.0 ± 0.8 (.827 $\pm$.031)
- Central hole diameter: 13.0 (.512)
- Distance from outer edge to inner hole: 2.0 ± 0.5 (.079 $\pm$.020)

Side View Dimensions:

- Overall width: 30.4 (1.197)
- Inner width: 13.0 (.512)
- Distance from outer edge to inner hole: $50.0 -0$ (1.969 -0)
- Distance from outer edge to inner hole: $26 +0$ (1.024 +0)

End View Dimensions:

- Thickness: 0.10 (.004) MAX.
- Embossed cavity
- Embossed carrier

End View Details:

- END
- START
- NO COMPONENT 200 (7.87)
- COMPONENTS 400 (15.75)
- USER DIRECTION OF FEED
- QTY: 250 PCS. PER REEL
- DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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