

BOURNS®

A log-log plot showing Core Loss (mW) on the y-axis (ranging from 0.1 to 10,000) versus Flux Density Bp-p (gauss) on the x-axis (ranging from 100 to 10,000). The plot displays six curves for different frequencies: 1 MHz (orange), 500 KHz (cyan), 300 KHz (purple), 200 KHz (green), 100 KHz (red), and 50 KHz (blue). The curves show that core loss increases with both flux density and frequency. The 1 MHz curve is the highest, followed by 500 KHz, 300 KHz, 200 KHz, 100 KHz, and 50 KHz is the lowest.

Flux Density Bp-p (gauss)	1 MHz (mW)	500 KHz (mW)	300 KHz (mW)	200 KHz (mW)	100 KHz (mW)	50 KHz (mW)
100	~25	~8	~4	~2.5	~1	~0.4
1000	~1000	~1500	~800	~400	~150	~60
2000	-	-	~1500	~800	~300	~120

Technical drawing of a 100 ohm resistor showing end view, side view, and top view with dimensions in mm and inches.

End View Dimensions:

- Overall Diameter: 330 ± 0.5 DIA. (12.99)
- Inner Diameter: 2.0 ± 0.5 DIA. (0.079 ± .020)
- Inner Diameter: 21.0 ± 0.8 DIA. (0.827 ± .031)
- Inner Diameter: 13.0 ± 0.5 DIA. (0.512 ± .020)

Side View Dimensions:

- Overall Width: 30.4 ± 0.5 (1.20)
- Inner Width: 13.0 ± 0.5 DIA. (0.512 ± .020)
- Height: 50.0 ± 0.5 (1.969)
- Bottom Width: 26 ± 0.5 (1.02)

Top View Dimensions:

- Overall Length: 24.0 ± 0.5 (0.945)
- Inner Length: 16 ± 0.5 (0.63)
- Inner Width: 13.0 ± 0.5 DIA. (0.512 ± .020)

Assembly Details:

- COVER TAPE
- EMBOSSED CAVITY
- EMBOSSED CARRIER

Resistance Value and Tolerance: 100 ± 5% (100 ± 5)

Dimensions: 330 ± 0.5 DIA. (12.99), 2.0 ± 0.5 DIA. (0.079 ± .020), 21.0 ± 0.8 DIA. (0.827 ± .031), 13.0 ± 0.5 DIA. (0.512 ± .020), 30.4 ± 0.5 (1.20), 13.0 ± 0.5 DIA. (0.512 ± .020), 50.0 ± 0.5 (1.969), 26 ± 0.5 (1.02), 24.0 ± 0.5 (0.945), 16 ± 0.5 (0.63)

USER DIRECTION OF FEED

QTY: 800 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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