

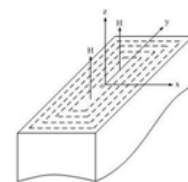
Core Loss Test

Introduction

There all three loss of ferromagnetic in working condition: eddy current loss, hysteresis loss and copper loss.

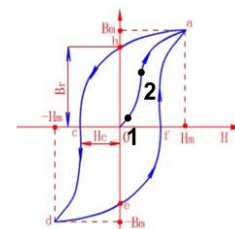
Eddy current loss

Induced current caused by alternating magnetic in the core generated joule heat, this loss known as eddy current loss.



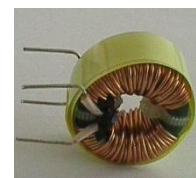
Hysteresis loss

Magnetic hysteresis loss lead to heat in ferromagnetic, and the greater of hysteresis loop area, the greater of hysteresis.



Copper loss

The loss generated in copper wire wound around the core when current flowing.



Test System

We introduced an AC characteristic tester-SY 8218 hysteresis loop tester to test the core loss including eddy current loss and hysteresis loss, copper loss not include.

Device Name	Frequency Range	Variable Temperature Test	Source /Power
B-H analyzer	10 Hz to 10 MHz(sin)	-30 to 150°C	± 5.2 A MAX, ± 140 V MAX