



Ferrite Toroid Core 5000-1

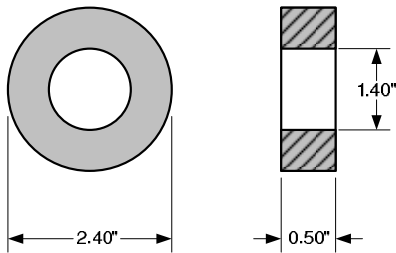
## Introduction

Our Ferrite Core 5000-1 is specifically designed for use as gate transformers with high power CM300 and CM600 (or similar) IGBT based DRSSTCs. A single 5000-1 core can be used to drive an entire full-bridge based of (4) CM600 IGBT modules. They can also be used as high current pulse transformers.

## Typical Applications:

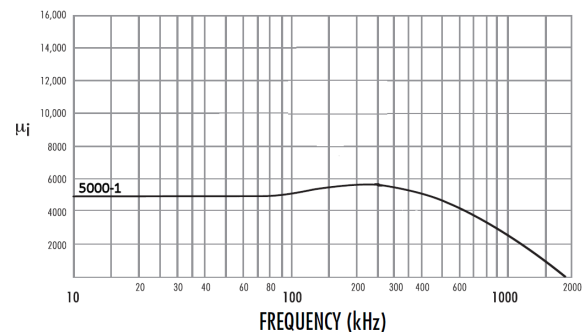
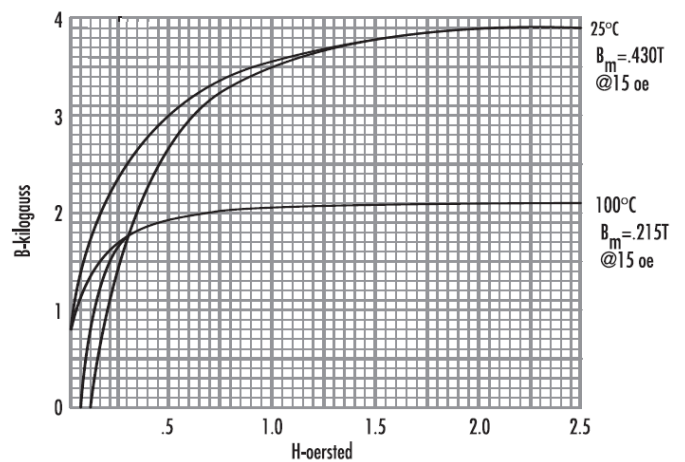
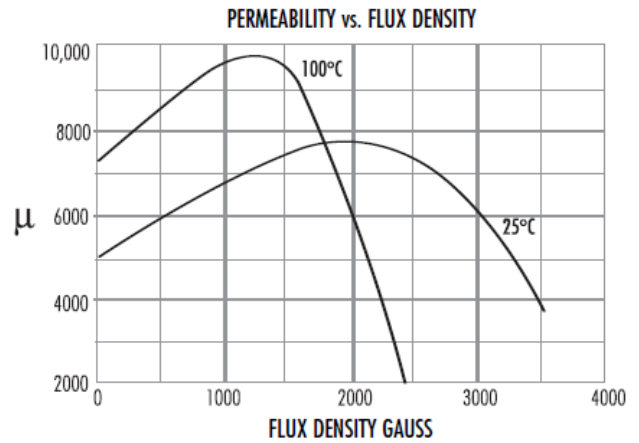
- Gate transformers for high power DRSSTCs
- Current transformers (1000A+)
- Half-bridge and full-bridges
- Solid state Tesla Coils (SSTCs)
- CM300 / CM600 IGBT gate transformers

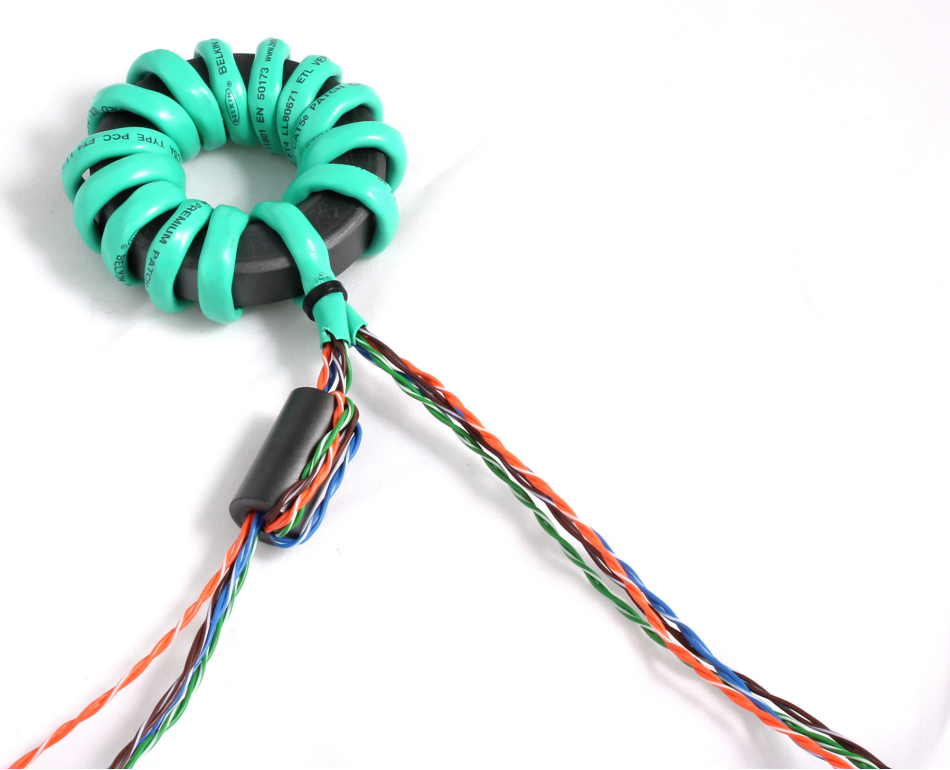
## Physical Dimensions



Electrical Properties	
$A_L$ (nH)	6845 ± 20%
$A_e$ (mm <sup>2</sup> )	157.4
$\sum l/A$ (cm <sup>-1</sup> )	10.00
$l_c$ (mm)	144.6
$V_e$ (mm <sup>3</sup> )	22774

## Type 5000 Material Properties





Typical Application – Gate Transformer using Ferrite Toroid Core 5000-1  
(shown with Ferrite Suppression Core 31-1)