

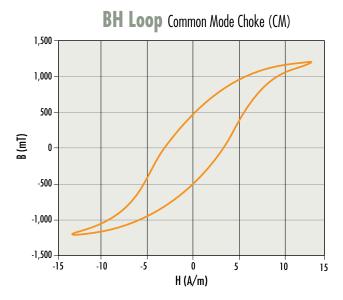
## Nanocrystalline Cores

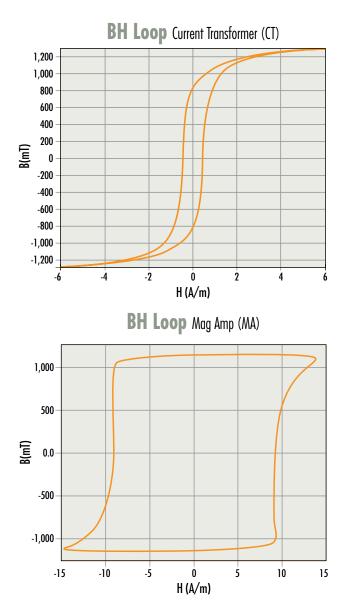


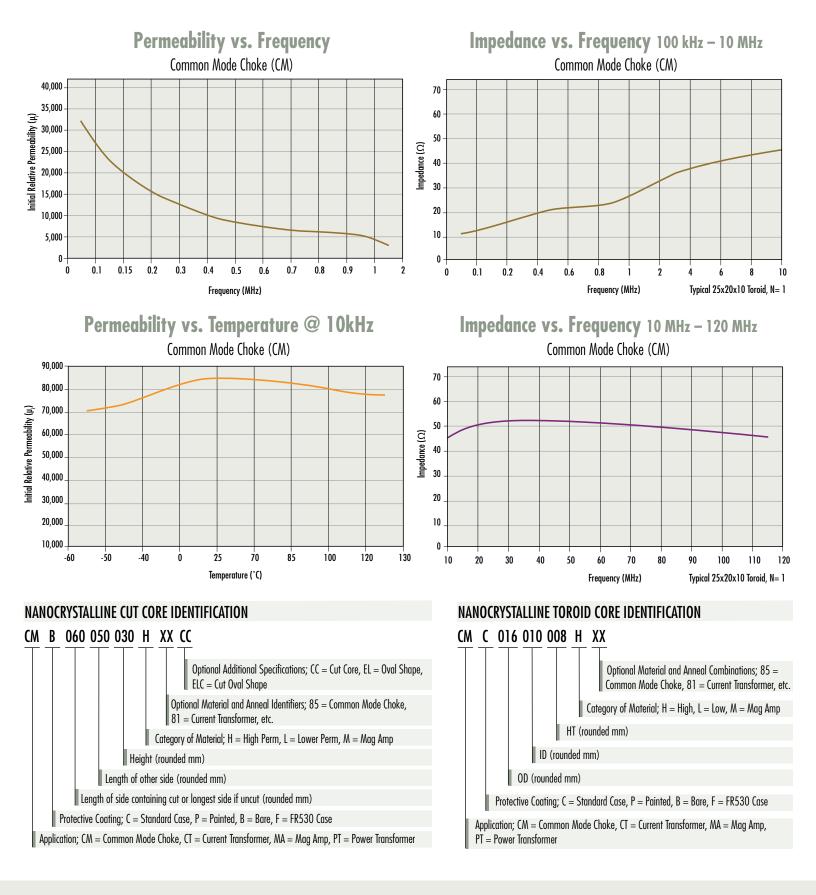
Nanocrystalline cores are an optimal choice for applications such as common mode chokes and current transformers as they exhibit high permeability, low power loss, and high saturation. Available in toroids, cut toroids, slotted toroids, and cut cores from 5 mm to 145 mm, Magnetics' nanocrystalline cores can also be used in switched-mode power supplies (SMPS), uninterruptible power supplies (UPS), solar inverters, frequency converters, EMC filters, EV chargers, and automotive and welding applications.

When compared to ferrite cores, nanocrystalline cores provide significantly higher impedance at high frequencies. Due to nanocrystalline's high permeability, common mode chokes and current transformers can be smaller in size, lighter in weight, and handle higher current. Saturation induction of 1.25T and a wide temperature range mean that common mode chokes, current transformers, and magnetic amplifiers (mag amps) made with nanocrystalline cores are less vulnerable to current imbalance and loss of performance at high temperature.

Nanocrystalline cores are a lower cost alternative to permalloy and exhibit improved accuracy compared to silicon steel. The material's low AC losses result in excellent efficiency, and the option of durable cases - available in polyester (<130°C) and rynite polyester (<155°C) - makes cores suitable for winding with thick wire.









www.mag-inc.com

## HEADQUARTERS

110 Delta Drive Pittsburgh, PA 15238

(p) +1.412.696.1333 +1.800.245.3984

magnetics@spang.com

## **MAGNETICS INTERNATIONAL**

13/F 1-3 Chatham Road South Tsim Sha Tsui, Kowloon, Hong Kong

(p) +852.2731.9700 +86.139.1147.1417

asiasales@spang.com