The information contained in this drawing is the sole property of Coil Winding Specialist Inc (CWS).
Any reproduction in part or whole without written permission of CWS is prohibited.

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE BY	DATE	CHK	DATE
A		INITIAL RELEASE	JL	02/21/17	JM	02/21/17

Features

High Permeability (30-80k), high impendance Z and high insertion attenuation

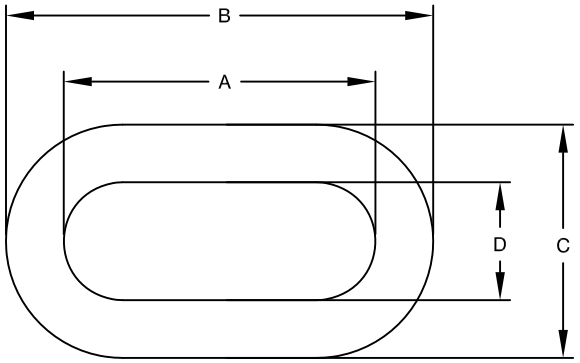
Suppresses the asymmetrical EMI currents

High saturation Flux density can reduce over voltage peaks

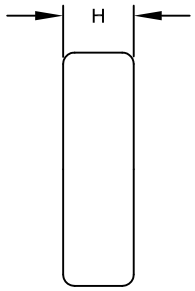
High Curie Temperature and excellent temperature chracteristices

Core Type: Nanocrystalline. NanoByte™

Electrical Specifications				
Item	Units	Condition	Value	Tol.
A_L	uH/N^2	@ 10kHz	12.6 - 28.4	N/A
A_L	uH/N^2	@ 100kHz	6.3	N/A
Permeability @ H peak 3.00 mA/cm	μ_0	@ 10kHz	30000	±25%
A_e	cm^2	N/A	0.80	±10%
L_e	cm	N/A	14.10	±10%
L_e x N	mA x turn	@ 10kHz	30	±10%
L_e x N	mA x turn	@ 100kHz	30	±10%
Saturation Flux Denisty	T	N/A	1.2	Max.
Curie Temperature	°C	N/A	580	Nom.



FRONT VIEW



SIDE VIEW

Dimensions and Tolerances				
	in	tol.	mm	tol.
Core Only				
B (Outer Diameter)	2.02	±0.40	50	±1
A (Inner Diameter)	1.57	±0.40	40	±1
H (Height)	0.79	±0.40	20	±1
With Case On				
B (Outer Diameter 1)	2.39	±0.40	60.7	±1
C (Outer Diemeter 2)	1.60	±0.40	40.7	±1
A (Inner Diameter 1)	1.68	±0.40	42.7	±1
D (Inner Diameter 2)	0.98	±0.40	24.8	±1
H (Height)	0.88	±0.40	22.3	±1

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST			

AUTOCAD	X
SOLIDWORKS	

UNLESS OTHERWISE SPECIFIED
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 ∠=±0°30'
TOLERANCE METRICS: .XXX=±.127 .XX=±.38 ∠=±0°30'
ANGLE PROJECTION
DO NOT SCALE DRAWING

	SIGN	DATE
DRAWN	JL	02/21/17
CHECKED	JM	02/21/17
ENGR.	JM	02/21/17
APPR.	JM	02/21/17

www.coilws.com
www.cwsbytemark.com
CWSBYTEMARK
353 W Grove Ave
Orange, CA 92865

TITLE: Nanocrystalline Core

SIZE | DWG. NO. CN50-40-20H | REV A

SCALE N/A | SHEET 1 OF 1

CAD-FILE: