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## CN53-38-20G

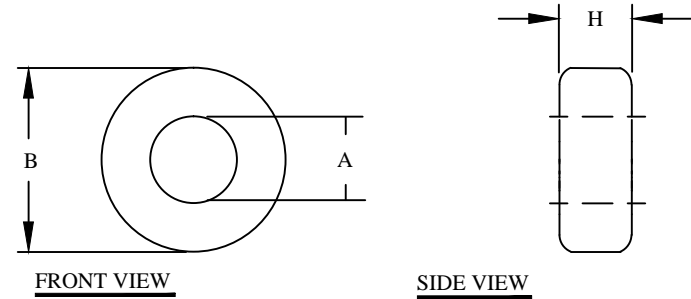
### Features

- High Permeability (30-80K), high impedance 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 characteristics

Electrical Specifications				
Item	Units	Condition	Value	Tol.
A <sub>L</sub>	nH/N <sup>2</sup>	@ 1kHz, 200mV	74200	± 25%
A <sub>L</sub>	nH/N <sup>2</sup>	@ 10kHz	67000	± 25%
A <sub>L</sub>	nH/N <sup>2</sup>	@ 100kHz	20000	± 25%
Permeability	μ <sub>0</sub>	@ 10 kHz	35000	± 25%
A <sub>e</sub>	cm <sup>2</sup>	N/A	1.50	± 10%
L <sub>e</sub>	cm	N/A	14.3	± 10%
Saturation Current	mA	@ 10 kHz	40	± 20
Saturation Flux Density	T	N/A	1.2	Max.
Curie temperature	°C	N/A	580	Nom.

Dimensional Tolerances				
	in	tol.	mm	tol.
Core				
B (Outer Diameter)	2.09	±0.40	53	±1
H (Height)	0.79	±0.40	20	±1
A (Inner Diameter)	1.50	±0.40	38	±1
Case				
B (Outer Diameter)	2.20	±0.40	56	±1
H (Height)	0.93	±0.40	24	±1
A (Inner Diameter)	1.38	±0.40	35	±1
Weight	82.00 g			

REVISION HISTORY					
REV	ECN	DESCRIPTION	SIGN & DATE		
			BY	DATE	AP. DATE
A		Production release	EO	1/21/13	JL 1/21/13



**For additional detail, specifications and charts see:**

[http://www.bytemark.com/products/comp\\_nanoc\\_cmchoke.html](http://www.bytemark.com/products/comp_nanoc_cmchoke.html)

[http://www.bytemark.com/products/Nanocrystalline\\_cores.html](http://www.bytemark.com/products/Nanocrystalline_cores.html)

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
		<b>PARTS LIST</b>	
AUTOCAD	X	www.coilws.com www.cwsbytemark.com	CWSBYTEMARK 353 West Grove Ave. Orange, CA. 92865
SOLIDWORKS			
DRAWN	EO 1/21/13	<b>Nanocrystalline Core</b>  SIZE DWG. NO. <b>CN53-38-20G</b> REV <b>A</b>	
CHECKED	JL 1/21/13		
ENGR.	JL 1/21/13		
APPR.	JL 1/21/13		
UNLESS OTHERWISE SPECIFIED		SCALE	N/A
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS]. TOLERANCE INCHES: .XXX=±.005 .XX=±.015 <math>\sphericalangle=±0°30'</math> TOLERANCE METRICS: .XXX=±.127 .XX=±.38 <math>\sphericalangle=±0°30'</math>		SHEET	1 OF 1
ANGLE PROJECTION		DO NOT SCALE DRAWING	