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## F-23-H

### Features

MnZn ferrite material for common mode chokes, power transformers, power inductors, broadband transformers, noise filter and etc.

#### Electrical Specifications

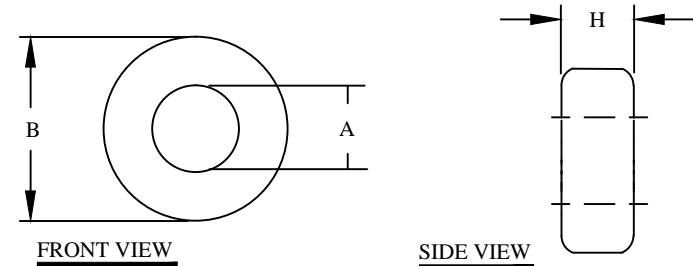
Item	Unit/Symbol	Condition	Value	Tol.
$A_L$	mH/1000	@ 5 gauss in a de-gaussed state	2940	± 30%
$L_e$	cm	N/A	1.3	± 10%
$A_e$	cm <sup>2</sup>	N/A	0.021	± 10%
$V_e$	cm <sup>3</sup>	N/A	0.027	± 10%
Density	g/cm <sup>3</sup>	N/A	4.9	Typ.
Permeability	$\mu_0$	Typical	15000	± 30%
Coercivity	$O_e$ , A/m	Typical	0.04, 3	Typ.
Flux Density	Gauss, B	Typical	4200	Typ.
	Gauss, H	@ 1194 A/m, 15 oe mT	420	Typ.
Curie temperature	°C	$T_c$	> 120	Typ.
Resistivity	$\Omega$ cm, $\rho$	Typical	0.1	Typ.
Relative Loss Factor	$10^{-6}$	$\tan\delta / \mu$	< 15	Typ.
	kHz	@ Frequency	10	Typ.
Max. Usable freq.	MHz	50% roll-off	< 0.15	Typ.
Remanence	G, mT	Typical	800, 80	Typ.
Disaccommodation Factor	$10^{-6}$	Typical	< 2.5	Typ.

#### Power Loss ( $P_L$ ), Sine Wave, in mW/cm<sup>3</sup> (typical)

Condition		@ 25 °C		@ 60 °C		@ 100 °C	@ 120 °C
I	25 kHz	N/A	200 mT	N/A	2000 G	N/A	N/A
II	100 kHz	N/A	100 mT	N/A	1000 G	N/A	N/A
III	500 kHz	N/A	50 mT	N/A	500 G	N/A	N/A
IV	700 kHz	N/A	50 mT	N/A	500 G	N/A	N/A

#### REVISION HISTORY

REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	AP.	DATE
A		Production release	EO	2/13/13	JL	2/13/13



#### Case Dimensional Tolerances

	in	tol.	mm	tol.
B (Outer Diameter)	0.230	0.241 Max	5.84	6.13 Max
A (Inner Diameter)	0.120	0.109 Min	3.05	2.76 Min
H (Height)	0.060	0.067 Max	1.52	1.71 Max
Weight 0.14 g				

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

<http://www.bytemark.com/>

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
		<b>PARTS LIST</b>	
AUTOCAD	X	<b>www.coilws.com</b> www.cwsbytemark.com	CWSBYTEMARK 353 West Grove Ave. Orange, CA. 92865
SOLIDWORKS			
DRAWN	EO 2/13/13	<b>TITLE:</b> <b>Ferrite Toroid Core</b> <b>MnZn Material H, uncoated</b>  <b>F-23-H</b>	
CHECKED	JL 2/13/13		
ENGR.	JL 2/13/13		
APPR.	JL 2/13/13		
UNLESS OTHERWISE SPECIFIED		SIZE DWG. NO.	REV
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS]. TOLERANCE INCHES: .XXX=±.005 .XX=±.015 <math>\angle=±0°30'</math> TOLERANCE METRICS: .XXX=±.127 .XX=±.38 <math>\angle=±0°30'</math>		B	A
ANGLE PROJECTION		SCALE	SHEET 1 OF 1
DO NOT SCALE DRAWING		N/A	