

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.

## F-87-WC

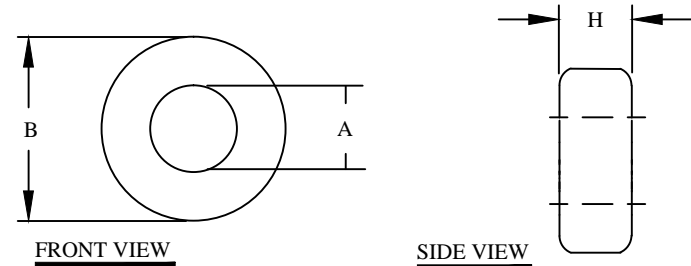
### Features

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	6040	± 30%
$L_e$	cm	N/A	5.42	± 10%
$A_e$	cm <sup>2</sup>	N/A	0.25	± 10%
$V_e$	cm <sup>3</sup>	N/A	1.36	± 10%
Density	g/cm <sup>3</sup>	N/A	4.8	Typ.
Permeability	$\mu_0$	Typical	10000	± 30%
Coercivity	$O_e$ , A/m	Typical	0.04, 3	Typ.
Flux Density	Gauss, B	Typical	4300	Typ.
	Gauss, H	@ 1194 A/m, 15 oe mT	430	Typ.
Curie temperature	°C	$T_c$	> 125	Typ.
Resistivity	$\Omega$ cm, $\rho$	Typical	0.15	Typ.
Relative Loss Factor	$10^{-6}$	$\tan\delta / \mu$	< 7	Typ.
	kHz	@ Frequency	10	Typ.
Max. Usable freq.	MHz	50% roll-off	< 0.25	Typ.
Remanence	G, mT	Typical	800, 80	Typ.
Disaccommodation Factor	$10^{-6}$	Typical	< 3	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)	0.870	0.908 Max	22.10	22.86 Max
A (Inner Diameter)	0.540	0.502 Min	13.70	12.95 Min
H (Height)	0.250	0.276 Max	6.35	6.91 Max
Weight	6.40 g			

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

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

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST			
AUTOCAD	X		
SOLIDWORKS			
SIGN	DATE	www.coilws.com www.cwsbytemark.com	CWSBYTEMARK 353 West Grove Ave. Orange, CA. 92865
DRAWN	EO 2/13/13	TITLE: Ferrite Toroid Core MnZn Material W, Epoxy Coated	
CHECKED	JL 2/13/13	SIZE DWG. NO. B F-87-WC	
ENGR.	JL 2/13/13	SCALE N/A	
APPR.	JL 2/13/13	SHEET 1 OF 1	
DO NOT SCALE DRAWING			