

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-290-F

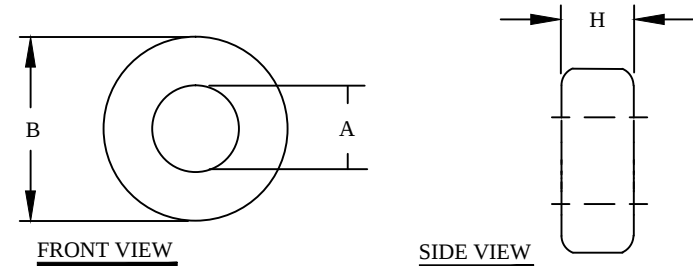
Features

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	4880	± 20%
L _e	cm	N/A	16.5	± 10%
A _e	cm ²	N/A	2.12	± 10%
V _e	cm ³	N/A	35.5	± 10%
Density	g/cm ³	N/A	4.8	Typ.
Permeability	μ ₀	Typical	3000	± 20%
Coercivity	Oe, A/m	Typical	0.2, 16	Typ.
Flux Density	Gauss, B	Typical	4900	Typ.
	Gauss, H	@ 1194 A/m, 15 oe mT	490	Typ.
Curie temperature	°C	T _c	> 250	Typ.
Resistivity	Ω cm, ρ	Typical	2	Typ.
Relative Loss Factor	10 ⁻⁶	tanδ / μ	< 8	Typ.
	kHz	@ Frequency	100	Typ.
Max. Usable freq.	MHz	50% roll-off	< 1.3	Typ.
Remanence	G, mT	Typical	1200, 120	Typ.
Disaccommodation Factor	10 ⁻⁶	Typical	N/A	Typ.

Power Loss (P _L), Sine Wave, in mW/cm ³ (typical)							
Condition		@ 25 °C		@ 60 °C		@ 100 °C	@ 120 °C
I	25 kHz	90	200 mT	160	2000 G	240	N/A
II	100 kHz	100	100 mT	180	1000 G	225	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)	2.900	2.940 Max	73.70	74.68 Max
A (Inner Diameter)	1.530	1.490 Min	38.90	37.84 Min
H (Height)	0.500	0.510 Max	12.70	12.96 Max
Weight	177.00 g			

For additional detail, specifications and charts see:

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

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST			
AUTOCAD	X	www.coilws.com www.cwsbytemark.com CWSBYTEMARK 353 West Grove Ave. Orange, CA. 92865	
SOLIDWORKS			
SIGN	DATE		
DRAWN	EO 2/13/13		
CHECKED	JL 2/13/13		
ENGR.	JL 2/13/13	Ferrite Toroid Core MnZn Material F, uncoated F-290-F	
APPR.	JL 2/13/13		
DO NOT SCALE DRAWING		SCALE	SHEET 1 OF 1