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F-114-WC

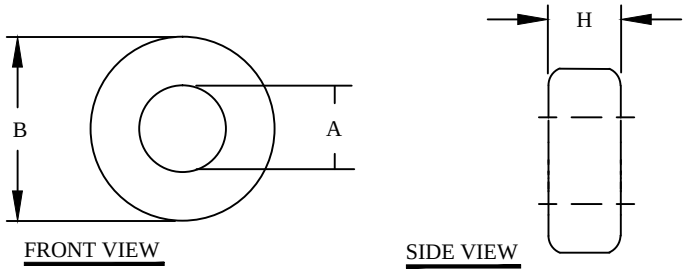
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	AP.	DATE
A		Production release	EO	7/13/13	JL	7/13/13

Features

MnZn ferrite material for common mode chockes, 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	6340	± 30%
L_e	cm	N/A	7.32	± 10%
A_e	cm^2	N/A	0.358	± 10%
V_e	cm^3	N/A	2.62	± 10%
Density	g/cm^3	N/A	4.8	Typ.
Permeability	μ_0	Typical	10000	± 30%
Coercivity	Oe, 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	Ω cm, ρ	Typical	0.15	Typ.
Relative Loss Factor	10^{-6}	tanδ / μ	< 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^3 (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



Case Dimensional Tolerances				
	in	tol.	mm	tol.
B (Outer Diameter)	1.142	1.177	29.00	29.90
A (Inner Diameter)	0.748	0.713	19.00	18.11
H (Height)	0.295	0.317	7.49	8.06
Weight 12.90 g				

For additional detail, specifications and charts see:

http://www.bytemark.com/

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

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

AUTOCAD	X	
SOLIDWORKS		
SIGN		DATE
DRAWN	EO	7/13/13
CHECKED	JL	7/13/13
ENGR.	JL	7/13/13
APPR.	JL	7/13/13

www.coilws.com
www.cwsbytemark.com

CWSBYTEMARK
353 West Grove Ave. Orange, CA. 92865

TITLE: Ferrite Toroid Core
MnZn Material W, Epoxy Coated

SIZE B | DWG. NO. F-114-WC | REV A

SCALE N/A | SHEET 1 OF 1

EP FORM0005 REV 3 10/01

CAD–FILE: