F-50A-F

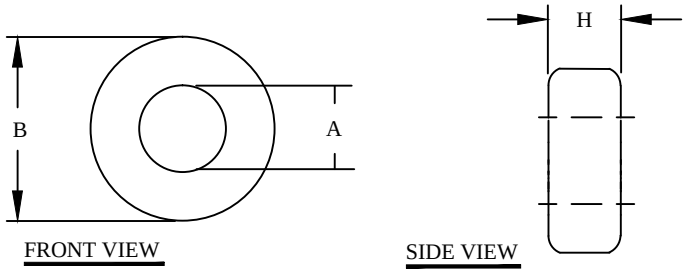
REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	AP.	DATE
A		Production release	EO	2/13/13	JL	2/13/13

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	1782	± 20%
L_e	cm	N/A	3.12	± 10%
A_e	cm^2	N/A	0.146	± 10%
V_e	cm^3	N/A	0.457	± 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



FRONT VIEW SIDE VIEW

Case Dimensional Tolerances				
	in	tol.	mm	tol.
B (Outer Diameter)	0.500	0.510 Max	12.70	12.96 Max
A (Inner Diameter)	0.312	0.302 Min	7.92	7.67 Min
H (Height)	0.250	0.257 Max	6.35	6.53 Max
Weight 2.40 g				

For additional detail, specifications and charts see:

http://www.bytemark.com/

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

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

	X
AUTOCAD	
SOLIDWORKS	

SIGN		DATE
DRAWN	EO	2/13/13
CHECKED	JL	2/13/13
ENGR.	JL	2/13/13
APPR.	JL	2/13/13

www.coilws.com
www.cwsbytemark.com

CWSBYTEMARK
353 West Grove Ave. Orange, CA. 92865

TITLE:
Ferrite Toroid Core
MnZn Material F, uncoated

SIZE	DWG. NO.	REV
B	F-50A-F	A

SCALE N/A SHEET 1 OF 1

CAD–FILE: