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F-87A-P

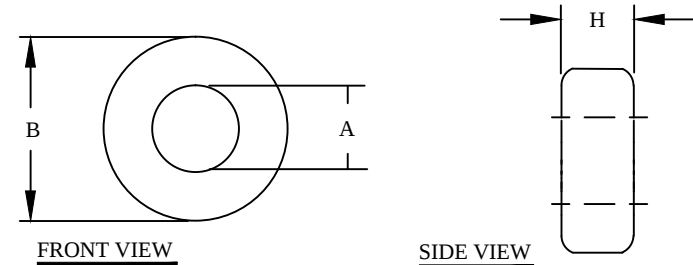
Features

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	3020	± 25%
L _e	cm	N/A	5.42	± 10%
A _e	cm ²	N/A	0.511	± 10%
V _e	cm ³	N/A	2.77	± 10%
Density	g/cm ³	N/A	4.8	Typ.
Permeability	μ ₀	Typical	2500	± 25%
Coercivity	O _e , A/m	Typical	0.18, 14	Typ.
Flux Density	Gauss, B	Typical	5000	Typ.
	Gauss, H	@ 1194 A/m, 15 oe mT	500	Typ.
Curie temperature	°C	T _c	> 230	Typ.
Resistivity	Ω cm, ρ	Typical	0.50	Typ.
Relative Loss Factor	10 ⁻⁶	tanδ / μ	< 7	Typ.
	kHz	@ Frequency	10	Typ.
Max. Usable freq.	MHz	50% roll-off	< 1.2	Typ.
Remanence	G, mT	Typical	1100, 110	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	120	200 mT	90	2000 G	95	130
II	100 kHz	125	100 mT	90	1000 G	125	165
III	500 kHz	300	50 mT	250	500 G	275	350
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	0.885 Max	22.10	22.48 Max
A (Inner Diameter)	0.540	0.525 Min	13.70	13.33 Min
H (Height)	0.500	0.510 Max	12.70	12.96 Max
Weight	13.50 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	TITLE: Ferrite Toroid Core MnZn Material P, uncoated	
APPR.	JL 2/13/13		
		SIZE DWG. NO.	REV
		B F-87A-P	A
		SCALE	SHEET 1 OF 1
		N/A	

UNLESS OTHERWISE SPECIFIED
 DIMENSIONING AND TOLERANCE PER ANSI Y14.5M
 ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].
 TOLERANCE INCHES:
 .XXX=±.005 .XX=±.015 <X=±0.30
 TOLERANCE METRICS:
 .XXX=±.127 .XX=±.38 <X=±0.30
 ANGLE PROJECTION
 DO NOT SCALE DRAWING