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## E-250-77

### Features

MnZn ferrite material with range up to 100 kHz for wide range of high and low flux density inductive designs.

Measurements are for 1 piece (a half). Kits contain 1 bobbin for center connection, and 2 core halves (2 pieces).

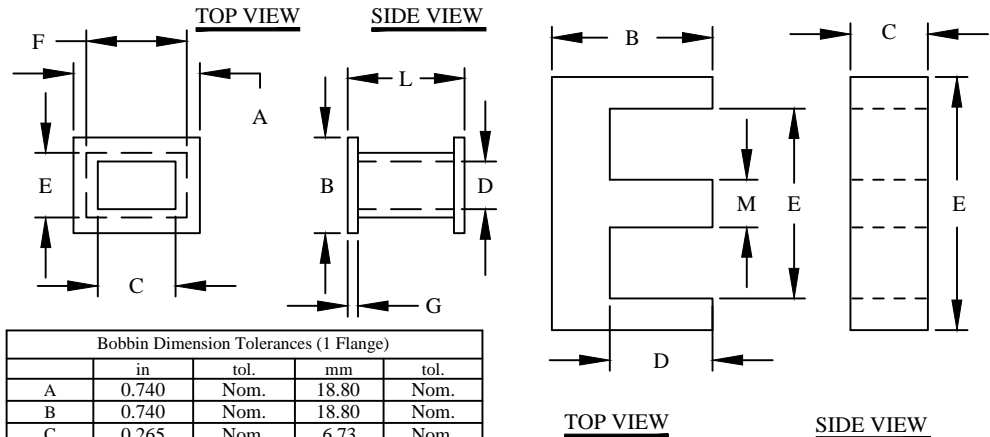
#### Electrical Specifications

Item	Unit/Symbol	Condition	Value	Tol.
$A_L$	nH/N <sup>2</sup>	@ 10 KHz	1300	Min.
$L_e$	cm	N/A	4.0	± 10%
$A_e$	cm <sup>2</sup>	N/A	0.40	± 10%
$V_e$	cm <sup>3</sup>	N/A	1.950	± 10%
Initial Permeability	$\mu_0$	@ B < 10 gauss	2000	Nom.
Temp. Coeff. Of initial Permeability	%, °C	20 - 70 °C	0.7	Typ.
Coercive Force	$H_c$	oersted	0.30	Typ.
Residual Flux Density	Gauss, $B_r$	N/A	1800	Typ.
Flux Density	Gauss, B	Initial (B), oersted	4900	Typ.
	Gauss, H	@ Field Strength (H), oersted	5	Typ.
Curie temperature	°C	$T_c$	> 200	Nom.
Resistivity	$\Omega$ cm, $\rho$	@ Field Strength	10 <sup>2</sup>	Typ.
Loss Factor	10 <sup>-6</sup> , $\tan \delta / \mu$	Initial	15	Typ.
	MHz	@ Frequency	0.1	Typ.

#### Dimensions

	A, LH (Length)	B, W (Width)	C, HT (Height)	D	E	M
In	1.000	0.380	0.250	0.255	0.740	0.250
Tol.	± 0.019	- 0.012	- 0.019	± 0.009	Min.	- 0.019
mm	25.40	9.80	6.60	6.35	18.80	6.60
Tol.	± 0.50	- 0.30	- 0.50	± 0.25	Min.	- 0.05
Weight	5.40 g					

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	AP.	DATE
A		Production release	EO	11/9/13	JL	11/9/13



Bobbin Dimension Tolerances (1 Flange)				
	in	tol.	mm	tol.
A	0.740	Nom.	18.80	Nom.
B	0.740	Nom.	18.80	Nom.
C	0.265	Nom.	6.73	Nom.
D	0.265	Nom.	6.73	Nom.
E	0.305	Nom.	7.75	Nom.
F	0.305	Nom.	7.75	Nom.
G	0.035	Nom.	0.889	Nom.
L	0.475	Nom.	12.10	Nom.

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

[http://www.bytemark.com/products/ferrite\\_matl.htm](http://www.bytemark.com/products/ferrite_matl.htm)

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
PARTS LIST			
AUTOCAD	X	www.coilws.com www.cwsbytemark.com	CWSBYTE MARK 353 West Grove Ave. Orange, CA. 92865
SOLIDWORKS			
SIGN	DATE	E Core Material 77, MnZn	
DRAWN	EO 11/9/13		
CHECKED	JL 11/9/13		
ENGR.	JL 11/9/13		
APPR.	JL 11/9/13	SIZE DWG. NO.	REV
		B E-250-77	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 <math>\angle=±0°30'</math>  
 TOLERANCE METRICS:  
 .XXX=±.127 .XX=±.38 <math>\angle=±0°30'</math>  
 ANGLE PROJECTION   
 DO NOT SCALE DRAWING