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## E-375-77

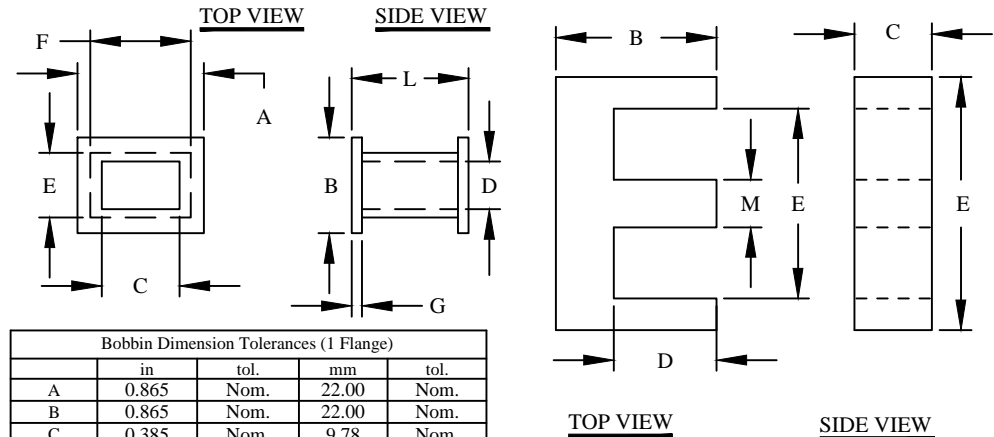
### Features

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).

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

Electrical Specifications				
Item	Unit/Symbol	Condition	Value	Tol.
$A_L$	nH/N <sup>2</sup>	@ 10 KHz	2050	Min.
$L_e$	cm	N/A	6.9	± 10%
$A_e$	cm <sup>2</sup>	N/A	0.86	± 10%
$V_e$	cm <sup>3</sup>	N/A	6.000	± 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 <sub>c</sub>	oersted	0.30	Typ.
Residual Flux Density	Gauss, B <sub>r</sub>	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 <sub>c</sub>	> 200	Nom.
Resistivity	Ω cm, ρ	@ Field Strength	10 <sup>2</sup>	Typ.
Loss Factor	10 <sup>-6</sup> , tanδ / μ	Initial	15	Typ.
	MHz	@ Frequency	0.1	Typ.



Bobbin Dimension Tolerances (1 Flange)				
	in	tol.	mm	tol.
A	0.865	Nom.	22.00	Nom.
B	0.865	Nom.	22.00	Nom.
C	0.385	Nom.	9.78	Nom.
D	0.385	Nom.	9.78	Nom.
E	0.445	Nom.	11.30	Nom.
F	0.445	Nom.	11.30	Nom.
G	0.032	Nom.	0.812	Nom.
L	0.680	Nom.	17.30	Nom.

**For additional detail, specifications and charts see:**  
[http://www.bytemark.com/products/ferrite\\_matl.htm](http://www.bytemark.com/products/ferrite_matl.htm)

Dimensions						
	A, LH (Length)	B, W (Width)	C, HT (Height)	D	E	M
In	1.360	0.567	0.365	0.380	1.004	0.370
Tol.	± 0.028	- 0.009	± 0.009	+ 0.009	Min.	± 0.006
mm	34.55	14.50	9.25	9.50	25.50	9.40
Tol.	± 0.70	- 0.25	± 0.25	+ 0.25	Min.	± 0.15
Weight	16.00 g					

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
<b>PARTS LIST</b>			
AUTOCAD	X	www.coilws.com www.cwsbytemark.com	CWSBYTEMARK 353 West Grove Ave. Orange, CA. 92865
SOLIDWORKS			
DRAWN	EO 11/9/13	<b>E Core Material 77, MnZn</b>  TITLE:	
CHECKED	JL 11/9/13		
ENGR.	JL 11/9/13		
APPR.	JL 11/9/13		
UNLESS OTHERWISE SPECIFIED		SIZE DWG. NO.	REV
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS]. TOLERANCE INCHES: .XXX=±.005 .XX=±.015 <math>\sphericalangle=±0°30'</math> TOLERANCE METRICS: .XXX=±.127 .XX=±.38 <math>\sphericalangle=±0°30'</math> ANGLE PROJECTION		B	E-375-77
DO NOT SCALE DRAWING		SCALE	SHEET 1 OF 1
		N/A	