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E-500-77

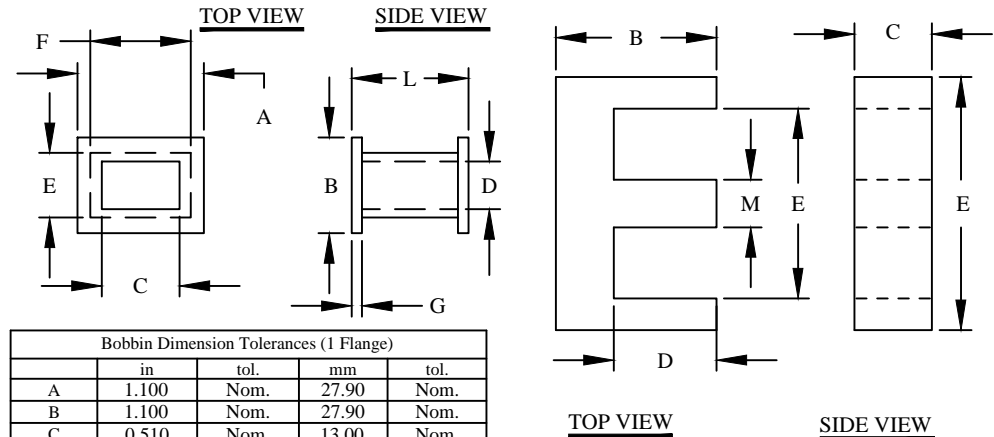
Features

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	10/9/13	JL	10/9/13

Electrical Specifications				
Item	Unit/Symbol	Condition	Value	Tol.
A _L	nH/N ²	@ 10 KHz	3225	Min.
L _e	cm	N/A	7.6	± 10%
A _e	cm ²	N/A	1.50	± 10%
V _e	cm ³	N/A	11.500	± 10%
Initial Permeability	μ 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	Ω cm, ρ	@ Field Strength	10 ²	Typ.
Loss Factor	10 ⁻⁶ , tan δ / μ	Initial	15	Typ.
	MHz	@ Frequency	0.1	Typ.



Bobbin Dimension Tolerances (1 Flange)				
	in	tol.	mm	tol.
A	1.100	Nom.	27.90	Nom.
B	1.100	Nom.	27.90	Nom.
C	0.510	Nom.	13.00	Nom.
D	0.510	Nom.	13.00	Nom.
E	0.575	Nom.	14.60	Nom.
F	0.575	Nom.	14.60	Nom.
G	0.032	Nom.	0.813	Nom.
L	0.796	Nom.	20.20	Nom.

For additional detail, specifications and charts see:
http://www.bytemark.com/products/ferrite_matl.htm

Dimensions						
	A, LH (Length)	B, W (Width)	C, HT (Height)	D	E	M
In	1.604	0.650	0.480	0.405	1.095	0.480
Tol.	± 0.031	± 0.006	± 0.016	± 0.009	Min.	± 0.014
mm	40.75	16.50	12.20	10.15	27.80	12.20
Tol.	± 0.80	± 0.15	± 0.40	± 0.25	Min.	± 0.35
Weight	30.00 g					

UNLESS OTHERWISE SPECIFIED
 DIMENSIONING AND TOLERANCE PER ANSI Y14.5M
 ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].
 TOLERANCE INCHES:
 .XXX=±.005 .XX=±.015 \sphericalangle=±0°30'
 TOLERANCE METRICS:
 .XXX=±.127 .XX=±.38 \sphericalangle=±0°30'
 ANGLE PROJECTION
 DO NOT SCALE DRAWING

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			
DRAWN	EO 10/9/13	TITLE: E Core Material 77, MnZn SIZE DWG. NO. E-500-77 SCALE N/A	
CHECKED	JL 10/9/13		
ENGR.	JL 10/9/13		
APPR.	JL 10/9/13		
		REV	A
		SHEET	1 OF 1