F-140-77

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	AP.	DATE
A		Production release	EO	1/31/13	JL	1/31/13

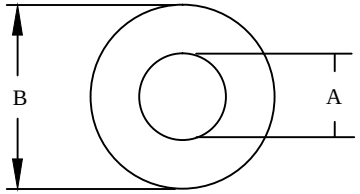
Features

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

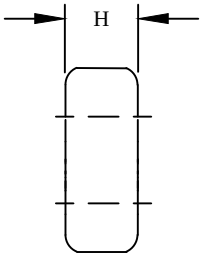
Burnished to break sharp edges, can contain Parylene C coat at smaller diameters from the length of 9.5mm (0.375") or a uniform coating of thermo-set plastic at larger dimensions (if part numbers ends with a C).

Electrical Specifications				
Item	Unit/Symbol	Condition	Value	Tol.
A_L	nH/N^2	@ 10 KHz	2250	± 20%
L_e	cm	N/A	8.9	± 10%
A_e	cm^2	N/A	0.79	± 10%
V_e	cm^3	N/A	7	± 10%
Initial Permeability	μ_0	@ B < 10 gauss	2000	± 20%
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}, tanδ / μ	Initial	15	Typ.
	MHz	@ Frequency	0.1	Typ.

Dimensional Tolerances				
	in	tol.	mm	tol.
Case				
B (Outer Diameter)	1.400	± 0.030	35.55	± 0.75
A (Inner Diameter)	0.900	± 0.022	23.00	± 0.55
H (Height)	0.500	± 0.020	12.70	± 0.50
Weight 33.00 g				



FRONT VIEW



SIDE VIEW

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

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

AUTOCAD	X
SOLIDWORKS	

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

SIGN		DATE
DRAWN	EO	1/31/13
CHECKED	JL	1/31/13
ENGR.	JL	1/31/13
APPR.	JL	1/31/13

www.coilws.com
www.cwsbytemark.com
CWSBYTEMARK
353 West Grove Ave. Orange, CA. 92865

TITLE: Ferrite Toroid Core Material 77, MnZn

SIZE	DWG. NO.	REV
B	F-140-77	A

SCALE N/A SHEET 1 OF 1

CAD–FILE: