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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).

F-50A-77

Electrical Specifications

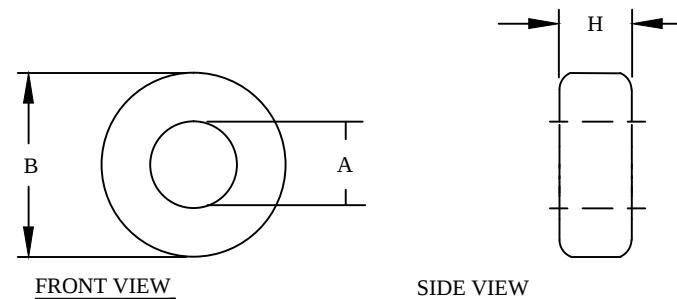
Item	Unit/Symbol	Condition	Value	Tol.
A _L	nH/N ²	@ 10 KHz	1200	± 20%
L _e	cm	N/A	3.12	± 10%
A _e	cm ²	N/A	0.15	± 10%
V _e	cm ³	N/A	0.47	± 10%
Initial Permeability	μ ₀	@ B < 10 gauss	2000	± 20%
Temp. Coeff. Of initial Permeability	%, °C	20 - 70 °C	0.7	Typ.
Coercive Force	H _c	oersted	0.30	Typ.
Residual 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)	0.500	± 0.010	12.70	± 0.25
A (Inner Diameter)	0.312	± 0.008	7.90	± 0.20
H (Height)	0.250	± 0.010	6.35	± 0.25
Weight 2.40 g				

REVISION HISTORY

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



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	www.coilws.com www.cwsbytemark.com CWSBYTEMARK 353 West Grove Ave. Orange, CA. 92865	
SOLIDWORKS			
SIGN	DATE		
DRAWN	EO 1/31/13		
CHECKED	JL 1/31/13	Ferrite Toroid Core Material 77, MnZn	
ENGR.	JL 1/31/13		
APPR.	JL 1/31/13		
		SIZE DWG. NO.	REV
		B F-50A-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 <X=±0.30
TOLERANCE METRICS: .XXX=±.127 .XX=±.38 <X=±0.30
ANGLE PROJECTION
DO NOT SCALE DRAWING