F-50B-75

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

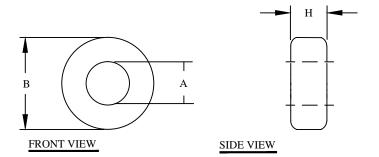
Features

MnZn ferrite material with high permeability for broadband and pulse transformers applications. Also intended for common-mode inductor 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	6000	± 20%				
Le	cm	N/A	3.12	± 10%				
Ae	cm ²	N/A	0.299	± 10%				
Ve	cm ³	N/A	0.93	± 10%				
Initial Permeability	μ_0	@ B < 10 gauss	5000	± 20%				
Temp. Coeff. Of initial Permeability	%, °C	%, °C 20 - 70 °C		Тур.				
Coercive Force	H _c	oersted	0.16	Тур.				
Residual Flux Density	Gauss, Br	N/A	1400	Тур.				
Flux Density	Gauss, B	Initial (B), oersted	4300	Тур.				
	Gauss, H	@ Field Strength (H), oersted	5	Тур.				
Curie temperature	°C	T _c	> 140	Nom.				
Resistivity	Ω cm, ρ	@ Field Strength	10^{2}	Тур.				
Loss Factor	10 ⁻⁶ , tanδ / μ	Initial	15	Тур.				
	MHz	@ Frequency	0.1	Тур.				

Dimensional Tolerances							
	in	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)	0.500	± 0.014	12.70	± 0.35			
Weight 4.70 g							



For additional detail, specifications and charts see:

http://www.bytemark.com/products/ferrite_matl.htm

		CODE IDENT MFG		P/N PARTS		DESCRIPTION		ITEM NO.	
		AUTOCAD X SOLIDWORKS		www.coilws.com		CWSBYTEMARK			
UNLESS OTHERWISE SPECIF	FIED	SIGN		DATE	www.cwsbytemark.com		353 West Grove Ave. Orang 92865		nge, CA.
DIMENSIONING AND TOLERANCE PER ANSI Y14.		DRAWN	EO	1/31/13	Ferrite Toroid Core Material				
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].	CHES	CHECKED	JL	1/31/13					
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 < √=±0°30' TOLERANCE METRICS:		ENGR.	JL	1/31/13	,			l rev	
XXX=±.127 XX=±.38 《=±0°30°		APPR.	JL	1/31/13	B	F-5	0B-75		A
DO NOT SCALE DRAWING	_				SCALE	N/A		SHEET 1 C	F 1

EP FORMO005 REV 3 10/01 CAD-FILE: