

The information contained in this drawing is the sole property of Coil Winding Specialist Inc (CWS). Any reproduction in part or whole without written permission of CWS is prohibited.

F-50-68

Features

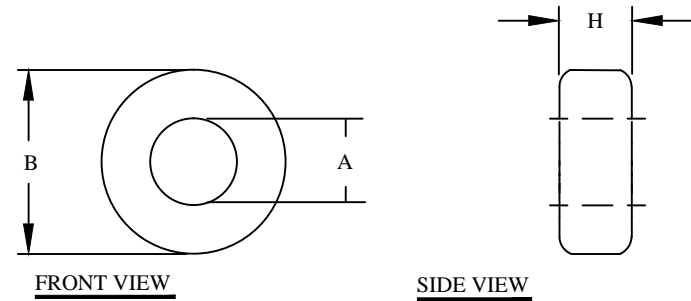
NiZn ferrite material with a range up to 100 MHz used for broadband transformers, antennas and HF high Q inductor applications.

Burnished to break sharp edges, can contain Parylene C coat at smaller diameters from the length of 9.5mm (.375") or a uniform coating of thermo-set plastic at larger dimensions (if part numbers ends with a C).

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

Electrical Specifications				
Item	Unit/Symbol	Condition	Value	Tol.
A _L	nH/N ²	Typ.	6.6 min	Typ.
L _c	cm	N/A	2.95	± 10%
A _e	cm ²	N/A	0.129	± 10%
V _e	cm ³	N/A	0.38	± 10%
Initial Permeability	μ ₀	@ B < 10 gauss	20	Typ.
Temp. Coeff. Of initial Permeability	%, °C	20 - 70 °C	0.10	Typ.
Coercive Force	H _c	oersted	7.0	Typ.
Residual Flux Density	Gauss, B _r	N/A	1000	Typ.
Flux Density	Gauss, B	Initial (B), oersted	2700	Typ.
	Gauss, H	@ Field Strength (H), oersted	40	Typ.
Curie temperature	°C	T _c	> 500	Nom.
Resistivity	Ω cm, ρ	@ Field Strength	10 ⁷	Typ.
Loss Factor	10 ⁻⁶ , tanδ / μ	Initial	500	Typ.
	MHz	@ Frequency	100	Typ.

Dimensional Tolerances				
	in	tol.	mm	tol.
Case				
B (Outer Diameter)	0.500	± 0.010	12.70	± 0.25
A (Inner Diameter)	0.281	± 0.008	7.15	± 0.20
H (Height)	0.188	- 0.010	4.90	- 0.25
Weight	2.00 g			



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			
DRAWN	EO 1/31/13	TITLE: Ferrite Toroid Core Material 68, NiZn	
CHECKED	JL 1/31/13		
ENGR.	JL 1/31/13		
APPR.	JL 1/31/13	SIZE DWG. NO.	REV
		B F-50-68	A
DO NOT SCALE DRAWING		SCALE	SHEET 1 OF 1
		N/A	