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## F-37-68

### Features

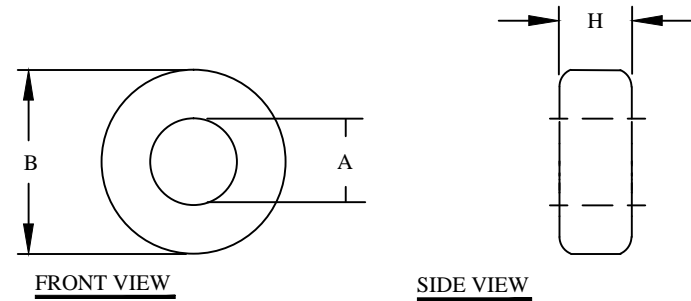
NiZn ferrite material with a range up to 100 MHz used for broadband transformers, antennas and HF high Q inductor applications.

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 <sub>L</sub>	nH/N <sup>2</sup>	Typ.	5.3 min	Typ.
L <sub>c</sub>	cm	N/A	2.07	± 10%
A <sub>e</sub>	cm <sup>2</sup>	N/A	0.073	± 10%
V <sub>e</sub>	cm <sup>3</sup>	N/A	0.15	± 10%
Initial Permeability	μ <sub>0</sub>	@ B < 10 gauss	20	Typ.
Temp. Coeff. Of initial Permeability	%, °C	20 - 70 °C	0.10	Typ.
Coercive Force	H <sub>c</sub>	oersted	7.0	Typ.
Residual Flux Density	Gauss, B <sub>r</sub>	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 <sub>c</sub>	> 500	Nom.
Resistivity	Ω cm, ρ	@ Field Strength	10 <sup>7</sup>	Typ.
Loss Factor	10 <sup>-6</sup> , tanδ / μ	Initial	500	Typ.
	MHz	@ Frequency	100	Typ.

Dimensional Tolerances				
	in	tol.	mm	tol.
Case				
B (Outer Diameter)	0.740	± 0.008	9.50	± 0.25
A (Inner Diameter)	0.187	± 0.006	4.75	± 0.15
H (Height)	0.125	- 0.010	3.30	- 0.25
Weight	0.83 g			



**For additional detail, specifications and charts see:**

[http://www.bytemark.com/products/ferrite\\_matl.htm](http://www.bytemark.com/products/ferrite_matl.htm)

CODE IDENT	MFG. P/N	DESCRIPTION	ITEM NO.
		<b>PARTS LIST</b>	
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-37-68	A
DO NOT SCALE DRAWING		SCALE N/A	SHEET 1 OF 1