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F-50-43

Features

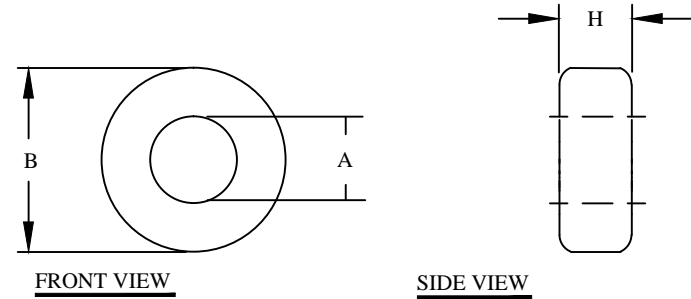
NiZn ferrite with a range of 20 to 250 MHz for suppression of conducted EMI, that is used for inductive applications (ex: high frequency common-mode chokes)

Burnished to break sharp edges, can contain Parylene C coat at smaller diameters from length 9.5mm (0.375") or a uniform coating of thermo-set plastic for larger dimension (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	@ 10 KHz	440	± 20%
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	800	± 20%
Temp. Coeff. Of initial Permeability	%, °C	20 - 70 °C	1.25	Typ.
Coercive Force	H _c	oersted	0.45	Typ.
Residual Flux Density	Gauss, B _r	N/A	1300	Typ.
Flux Density	Gauss, B	Initial (B), oersted	2900	Typ.
	Gauss, H	@ Field Strength (H), oersted	10	Typ.
Curie temperature	°C	T _c	> 130	Nom.
Resistivity	Ω cm, ρ	@ Field Strength	10 ⁵	Typ.
Loss Factor	10 ⁻⁶ , tanδ / μ	Initial	250	Typ.
	MHz	@ Frequency	1	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 43, NiZn	
CHECKED	JL 1/31/13	SIZE	DWG. NO.
ENGR.	JL 1/31/13	B	F-50-43
APPR.	JL 1/31/13	SCALE	N/A
UNLESS OTHERWISE SPECIFIED		SHEET 1 OF 1	
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M		CAD-FILE:	
ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS].			
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 $\sphericalangle=±0°30'$			
TOLERANCE METRICS: .XXX=±.127 .XX=±.38 $\sphericalangle=±0°30'$			
ANGLE PROJECTION			
DO NOT SCALE DRAWING			