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## S-3851-43

### Features

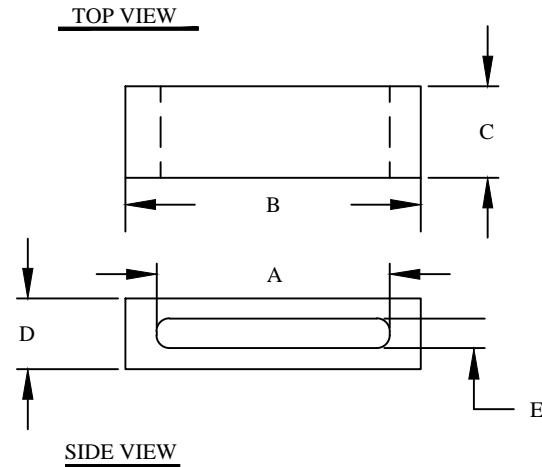
NiZn ferrite with a range of 20 to 250 MHz for suppression of conducted EMI, that is used for inductive applications (ex: high frequency common-mode chokes)

Broadband frequency range of 25-300 MHz.

REVISION HISTORY					
REV	ECN	DESCRIPTION	SIGN & DATE		
			BY	DATE	AP. DATE
A		Production release	EO	9/27/13	JL 9/27/13

Electrical Specifications				
Item	Unit/Symbol	Condition	Value	Tol.
Typical Impedance	$\Omega$	10 MHz	64	Typ.
Typical Impedance	$\Omega$	25 MHz	105	76 Min.
Typical Impedance	$\Omega$	100 MHz	220	195 $\pm$ 20%
Typical Impedance	$\Omega$	250 MHz	385	Typ.
Initial Permeability	$\mu_0$	@ B < 10 gauss	800	Nom.
Temp. Coeff. Of initial Permeability	%, $^{\circ}\text{C}$	20 - 70 $^{\circ}\text{C}$	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	$^{\circ}\text{C}$	$T_c$	> 130	Nom.
Resistivity	$\Omega \text{ cm}, \rho$	@ Field Strength	$10^5$	Typ.
Loss Factor	$10^{-6}, \tan \delta / \mu$	Initial	250	Typ.
	MHz	@ Frequency	1	Typ.

Dimensions						
	Cable Width	A	B (Core Dimension)	C	D	E
In	1.500	1.050	1.500	1.000	0.475	0.075
Tol.	Max.	$\pm 0.029$	$\pm 0.039$	$\pm 0.029$	$\pm 0.016$	$\pm 0.016$
mm	25.90	26.65	38.10	25.40	12.05	1.90
Tol.	Max.	$\pm 0.75$	$\pm 1.00$	$\pm 0.75$	$\pm 0.40$	$\pm 0.40$
Weight	51.00 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.
PARTS LIST			
AUTOCAD	X	www.coilws.com www.cwsbytemark.com	CWSBYTEMARK 353 West Grove Ave. Orange, CA. 92865
SOLIDWORKS			
DRAWN	EO 9/27/13	<b>TITLE:</b> Flat RF/EMI Suppression Core Material 43, NiZn	
CHECKED	JL 9/27/13		
ENGR.	JL 9/27/13		
APPR.	JL 9/27/13		
UNLESS OTHERWISE SPECIFIED		SIZE DWG. NO.	REV
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M ALL DIMENSIONS ARE IN INCHES AND [MILLIMETERS]. TOLERANCE INCHES: .XXX=±.005 .XX=±.015 $\angle$ =±0°30' TOLERANCE METRICS: .XXX=±.127 .XX=±.38 $\angle$ =±0°30'		B	S-3851-43
ANGLE PROJECTION		SCALE	A
DO NOT SCALE DRAWING		N/A	SHEET 1 OF 1