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R-312300-33

Features

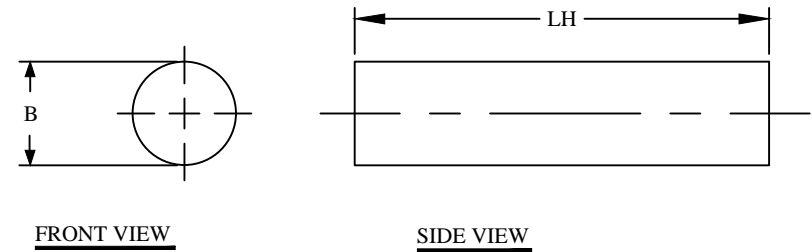
Ferrite rods, bars, slugs, plates and tubes are primarily used as magnetic cores in radio antennas, chokes, inductors and filters. In radio antennas, ferrite rods are useful within the VLF spectrum to the VHF spectrum. Advantages are the small size, high Q and compactness carried.

Material 33 can be used at frequencies lower than 3 MHz for inductors, antennas and other open circuit applications.

REVISION HISTORY						
REV	ECN	DESCRIPTION	SIGN & DATE			
			BY	DATE	AP.	DATE
A		Production release	EO	6/4/13	JL	6/4/13

Electrical Specifications				
Item	Unit/Symbol	Condition	Value	Tol.
A_L	nH/N ²	@10kHz, 250m	58	± 20%
Density	g/cm ³	N/A	4.8	Typ.
Initial Permeability	μ_0	Frequency = 10kHz, B < 10 Gauss	600	± 20%
Temp. Coeff. Of initial Permeability	%, °C	20 - 70 °C	≤ 0.1	Typ.
Saturation Flux Density	Gauss, B	Initial (B), oersted	2800	Typ.
	Gauss, H	@Field Strength (H), oersted	5	Typ.
Coercive Force	H _c	oersted	0.6	Typ.
Residual Flux Density	B _r	Gauss	1200	Typ.
Curie temperature	°C	T _c	≥ 150	Nom.
Volume Resistivity	$\Omega \cdot \text{cm}, \rho$	N/A	10 ²	Typ.
Loss Factor	10 ⁻⁶ , tan δ / μ	@ Frequency = 0.2 MHz, B=1 Gauss	< 25	Typ.
Recommended freq.	MHz	Frequency	0.01-400	Typ.

Dimensional Tolerances				
	in	tol.	mm	tol.
B (Outer Diameter)	0.312	± 5%	7.92	± 5%
LH (Length)	3.000	± 2%	76.20	± 2%
Approximate Weight				
18.04 g				



For additional detail, specifications and charts see:

http://www.bytemark.com/products/rod_new.html

http://www.bytemark.com/products/rod_customblocks.html

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 6/4/13	TITLE: Ferrite Rod Material 33, MnZn		
CHECKED	JL 6/4/13			
ENGR.	JL 6/4/13			
APPR.	JL 6/4/13	SIZE DWG. NO.	REV	
		B	R-312300-33	A
DO NOT SCALE DRAWING		SCALE	SHEET 1 OF 1	
		N/A		