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R-050100-61

Features

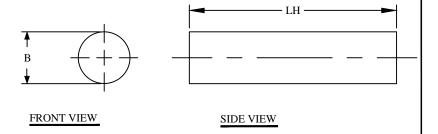
Ferrite rods, bars, slugs, plates and tubes are primarily used as magnetic cores in radio antennas, chokes, inductors and filters. In radio antennas, ferrite rods are useful within the VLF spectrum to the VHF spectrum. Advantages are the small size, high Q and compactness carried.

Material 61 can be used for antennas, filters, transformers, and emi supression. It can be used for inductive applications below 25 MHz, and BMI noise suppression past 200 MHz.

Electrical Specifications								
Item	Unit/Symbol	Value	Tol.					
A_L	nH/N ² @10 kHz, 100m		29	± 20%				
Density	g/cm ³	g/cm ³ N/A		Тур.				
Initial Permeability	μ_0	μ_0 Frequency = 10kHz, B<10 Gauss		± 20%				
Temp. Coeff. Of initial Permeability	%, °C	20 - 70 °C	≤ 0.1	Тур.				
Saturation Flux Density	Gauss, B Initial (B), oersted		2400	Тур.				
	Gauss, H	@Field Strength (H), oersted	15	Тур.				
Coercive Force	Hc	oersted	1.9	Тур.				
Residual Flux Density	Br	Gauss	1000	Тур.				
Curie temperature	°C	T _c	≥ 350	Nom.				
Volume Resistivity	Ω -cm, ρ	N/A	10 ⁷	Тур.				
Loss Factor	10^{-6} , $tan\delta / \mu$	@ Frequency = 2.5MHz, B=1 Gauss	< 40	Тур.				
Recommended freq.	MHz	Frequency	0.1-25, > 200	Тур.				

Dimensional Tolerances						
	in	tol.	mm	tol.		
B (Outer Diameter)	0.500	± 5%	12.70	± 5%		
LH (Length)	1.000	± 2%	25.40	± 2%		
Approximate Weight 15.44 g						

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



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	G. P/N		DESCRIPTION		ON	ITEM NO.
					PARTS LIST				
	AUTOCAD X						CW	SBYTEMARK	
	SOLIDY	/ORKS		www.coilws.com		353 West Grove Ave. Oran			
UNLESS OTHERWISE SPECIFIED	SIGN		DATE	wwv	v.cwsb	ytemark.com	92865		ilige, CA.
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M	DRAWN	ЕО	6/4/13	TITLE:			Į.	72005	
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].	CHECKED	JL	6/4/13	Ferrite Rod Material 61, NiZi					n
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 ≪=±0'30' TOLERANCE METRICS:	ENGR.	JL	6/4/13						REV
.XXX=±.127 .XX=±.38 ✓=±0'30' ANGLE PROJECTION	APPR.	JL	6/4/13	B R-050100-61				A	
DO NOT SCALE DRAWING				SCALE		N/A		SHEET 1 O	F 1
•			•						

EP FORM0005 REV 3 10/01 CAD-FILE: