## R-050300-61

## **Features**

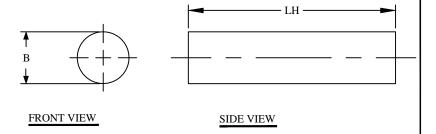
Ferrite rods, bars, slugs, plates and tubes are primarily used as magnetic cores in radio antennas, chokes, inductors and filters. In radio antennas, ferrite rods are useful within the VLF spectrum to the VHF spectrum. Advantages are the small size, high Q and compactness carried.

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	Condition	Value	Tol.				
$A_{L}$	nH/N <sup>2</sup>	@10 kHz, 100m	66	± 20%				
Density	g/cm <sup>3</sup>	N/A	4.8	Тур.				
Initial Permeability	$\mu_0$	Frequency = 10kHz, B<10 Gauss	125	± 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	$T_{\rm c}$	≥ 350	Nom.				
Volume Resistivity	Ω -cm, ρ	N/A	10 <sup>7</sup>	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)	3.000	± 2%	76.20	± 2%			
Approximate Weight 46.33 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		Х			CWSBYTEMARK		,	
	SOLIDY	VORKS		www.coilws.com		353 West Grove Ave Ora			
UNLESS OTHERWISE SPECIFIED	SIGN		DATE	www.cwsbytemark.com		92865		ige, CA.	
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M	DRAWN	ЕО	6/4/13	TITLE:				. =	
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].	CHECKED	JL	6/4/13	<del>'</del>					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 ⊕ -</th <th>APPR.</th> <th>JL</th> <th>6/4/13</th> <th colspan="4">B R-050300-61</th> <th>A</th>	APPR.	JL	6/4/13	B R-050300-61				A	
DO NOT SCALE DRAWING				SCALE		N/A		SHEET 1 O	F 1

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