The	infe	ormation	cont	ained	in this	drawing	is the s	ole pro	operty	of	Coil Wi	nding Specialist Inc (CW prohibited.	S).
Any	rep	productio	n in i	part or	whole	e without	writter	ı perm	ission	of	CWS is	prohibited.	

R-050400-61

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	mh/1000t	@575 Ampere turns	43	± 20%				
Density	g/cm ³	N/A	4.8	Тур.				
Initial Permeability	μ 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 _c	≥ 350	Nom.				
Volume Resistivity	Ω -cm, ρ	N/A	107	Тур.				
Loss Factor	$10^{\text{-6}}$, tan ð / μ	@ 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)	3.250	± 2%	101.60	± 2%					
Approximate Weight 61.78 g									

			REVISION HISTORY					
REV ECN		ECN	DESCRIPTION	SIGN & DATE				
				BY	DATE	AP.	DATE	
	A		Production release	EO	6/4/13	JL	6/4/13	
▲ B ↓	-(+++						
FRONT	VIE	W	SIDE VIEW					
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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		DESCRIPT	ION		ITEM NO.
		PARTS LIST									
		AUTOC	TOCAD X					CWSBYTEMARK 353 West Grove Ave. Orange			
		SOLIDV	SOLIDWORKS		www.coilws.com www.cwsbytemark.com						
	UNLESS OTHERWISE SPECIFIED		GN	DATE			ytemark.com	92865		nge, en	
Ť	Dimensioning and Olerance per ansi y14.5m	DRAWN	EO	6/4/13	TITLE:					-	
	NLL DIMENSIONS ARE IN INCHES ND [MILIMETERS].	CHECKED	JL	6/4/13		Fe	errite Rod	Materi	al 61,	NiZı	1
.xxx	"OLERANCE INCHES: <=±.005 .XX=±.015 爻=±0°30" "OLERANCE METRICS:	ENGR.	JL	6/4/13	075						REV
.xxx	$\begin{array}{c} \text{(=\pm,127)} \\ \text{(=\pm,127)} \\ \text{(XZ=\pm,38)} \\ \text{(=\pm,0'30)} \\ (Homogeneous of the second second$	APPR.	JL	6/4/13	B R-050400-61					A	
	DO NOT SCALE DRAWING				SCALE		N/A		SHEET	1 OF	1

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