The	infe	ormation	1 cont	ained	in this	drawing	is the so	ole property	/ of	Coil Wi	nding Specialist Inc (CWS). prohibited.	
Any	rep	producti	on in	part o	r whole	without	written	permission	ı of	CWS is	prohibited.	

R-050500-61

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 ²	@10 kHz, 250m	75	± 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 ⁻⁶ , tanδ / 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)	5.000	± 2%	127.00	± 2%						
Approximate Weight 77.22 g										

			REVISION HISTORY					
	REV	ECN	DESCRIPTION	SIGN & DATE				
	Α		Production release	BY EO	DATE 6/4/13	AP. JL		
				20	0, 1, 15		0/ 1/ 15	
▲ B ↓		+++++++++++++++++++++++++++++++++++++++	LH -					
FRONT	VIE	W	SIDE VIEW					
r add	itio	nal da	stail specifications and c	hai	rte ca	۵.		

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	AD	Х			CWSBYTEMARK			
	SOLIDW	VORKS			ilws.com	353 West Grove Ave. Orange CA			
UNLESS OTHERWISE SPECIFIED	SI	GN	DATE	www.cwsb	ww.cwsbytemark.com		92865		
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M	DRAWN	EO	6/4/13	TITLE:		•			
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].	CHECKED	JL	6/4/13	F	errite Rod	Materi	al 61, NiZ	Zn	
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 爻=±0'30' TOLERANCE METRICS:	ENGR.	JL	6/4/13	SIZE DWG. NO.				REV	
ANGLE PROJECTION ⊕ -	APPR.	JL	6/4/13						
DO NOT SCALE DRAWING				SCALE	N/A		SHEET 1	OF 1	

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CAD-FILE: