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## R-050075-61

## 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	Unit/Symbol Condition Value							
A <sub>L</sub>	nH/N <sup>2</sup>	@10 kHz, 100m	100m 21						
Density	g/cm <sup>3</sup>	N/A		Тур.					
Initial Permeability	μ <sub>0</sub>	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	Coercive Force H <sub>c</sub>		1.9	Тур.					
Residual Flux Density Br		Gauss	1000	Тур.					
Curie temperature °C		T <sub>c</sub>	≥ 350	Nom.					
Volume Resistivity	Volume Resistivity $\Omega^{-cm}$ , $\rho$		107	Тур.					
Loss Factor $10^{-6}$ , tan $\delta / \mu$		@ Frequency = 2.5MHz, B=1 Gauss	< 40	Тур.					
Recommended freq. MHz		Frequency	Тур.						

Dimensional Tolerances						
	in		mm	tol.		
B (Outer Diameter)	0.500	± 5%	12.70	± 5%		
LH (Length)	0.750	± 2%	19.05	± 2%		
Approximate Weight 11.58 g						

	REVISION HISTORY								
	REV ECN DESCRIPTION SIGN & DA' BY DATE AN				DATI	re L D + 775			
	A		Production release	EO EO	DATE 6/4/13	AP. JL	6/4/13		
				20	0, 1, 10		0, 1, 10		
∮ B ↓	-(	++	LH -						
FRONT	' VIE'	W	SIDE VIEW						
n a d d	4	م ا م	toil modifications and a	<b>h</b> ar	<b></b>	~ •			

## For additional detail, specifications and charts see:

http://www.bytemark.com/products/rod\_new.html

http://www.bytemark.com/products/rod\_customblocks.html

									LITEM
		IDENT	MFG	. P/	'N	DESCRIPTION			NO.
	PARTS LIST								
	AUTOC	AD D	Х	CWSBYTEMARK					
	SOLIDV	/orks		www.coilws.com			252 West Grove Ave Orange (		
UNLESS OTHERWISE SPECIFIED	SI	GN	DATE	www.cwsbytemark.com		n 92865		ige, CA.	
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	Materia	al 61, NiZi	n
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 <₹=±0'30' TOLERANCE METRICS:	ENGR.	JL	6/4/13	CI7E					BEV
.XXX=±.127 .XX=±.38 <=±0'30' ANGLE PROJECTION ⊕ -	APPR.	JL	6/4/13	B R-050075-61				1	A
DO NOT SCALE DRAWING				SCALE	•	N/A		SHEET 1 OI	F 1

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CAD-FILE: