R-050750-61

Features

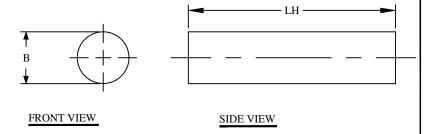
Ferrite rods, bars, slugs, plates and tubes are primarily used as magnetic cores in radio antennas, chokes, inductors and filters. In radio antennas, ferrite rods are useful within the VLF spectrum to the VHF spectrum. Advantages are the small size, high Q and compactness carried.

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	@260 Ampere turns	49	± 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	10 ⁷	Тур.				
Loss Factor	10^{-6} , $tan\delta$ / 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)	7.500	± 2%	190.50	± 2%		
Approximate Weight 115.83 g						

	REVISION HISTORY								
REV ECN	N DESCRIPTION	SIGN & DATE							
KEV	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 MFG		G. P/N [DESCRIPTION		ITEM NO.		
					PARTS LIST				
	AUTOCAD X				CW			/SBYTEMARK	
	SOLIDV	/ORKS		WWW colline com		-			
UNLESS OTHERWISE SPECIFIED	SIGN		DATE	www	v.cwsbytemark.com		353 West Grove Ave. Or: 92865		inge, CA.
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M	DRAWN	ЕО	6/4/13	TITLE:				72005	
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].	CHECKED	JL	6/4/13	Ferrite Rod Material 61, NiZ					Zn
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 < √=±0'30' TOLERANCE METRICS:	05 XX=±.015 <(=±0°30′ EnGA. 6/4/13							l REV	
.XXX=±.127 .XX=±.38 <\di>₹=±0°30° ANGLE PROJECTION ⊕ -	APPR.	JL	6/4/13	B R-050750-61			A		
DO NOT SCALE DRAWING				SCALE		N/A		SHEET 1	OF 1
0.40 511 5									

EP FORMO005 REV 3 10/01 CAD-FILE: