R-050400-33

Features

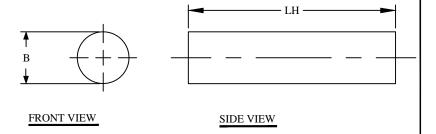
Ferrite rods, bars, slugs, plates and tubes are primarily used as magnetic cores in radio antennas, chokes, inductors and filters. In radio antennas, ferrite rods are useful within the VLF spectrum to the VHF spectrum. Advantages are the small size, high Q and compactness carried.

Material 33 can be used at frequencies lower than 3 MHz for inductors, antennas and other open circuit applications.

Electrical Specifications								
Item	Unit/Symbol	Condition	Value	Tol.				
A_L	nH/N ²	@10 kHz, 100m	59	± 20%				
Density	g/cm ³ N/A		4.8	Тур.				
Initial Permeability	μ_0	Frequency = 10kHz, B<10 Gauss	600	± 20%				
Temp. Coeff. Of initial Permeability	%, °C	%, °C 20 - 70 °C		Тур.				
Saturation Flux Density	Gauss, B Initial (B), oersted		2800	Тур.				
	Gauss, H	@Field Strength (H), oersted	5	Тур.				
Coercive Force	Hc	oersted	0.6	Тур.				
Residual Flux Density	Br	Gauss	1200	Тур.				
Curie temperature	°C	T _c	≥ 150	Nom.				
Volume Resistivity	Ω -cm, $ρ$	N/A	10 ²	Тур.				
Loss Factor	10 ⁻⁶ , tanδ / μ	@ Frequency = 0.2 MHz, B=1 Gauss	< 25	Тур.				
Recommended freq.	MHz	Frequency	0.01-400	Тур.				

Dimensional Tolerances						
	in	tol.	mm	tol.		
B (Outer Diameter)	0.500	± 5%	12.70	± 5%		
LH (Length)	4.000	± 2%	101.60	± 2%		
Approximate Weight 61.78 g						

	REVISION HISTORY							
REV ECN	J 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 IDENT MFG		G. P/N			DESCRIPTION		ITEM NO.		
						PARTS	LIST			
	AUTOCAD X			CM			SBYTEMARK			
	SOLIDV	VORKS		www.coilws.com		353 West Grove Ave Ora				
UNLESS OTHERWISE SPECIFIED	SIGN		DATE	www	v.cwsby	ytemark.com	92865		inge, CA.	
DIMENSIONING AND TOLERANCE PER ANSI Y14.5M	DRAWN	ЕО	6/4/13	TITLE:			I.	72005		
ALL DIMENSIONS ARE IN INCHES AND [MILIMETERS].	CHECKED	JL	6/4/13	İ	Ferrite Rod Material 33, MnZn				'n	
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 < ✓=±0'30' TOLERANCE METRICS:	ENGR.	JL	6/4/13	SIZE IDWG. NO.					REV	
.XXX=±.127 .XX=±.38 <=±0'30' ANGLE PROJECTION ⊕ -	APPR.	JL	6/4/13	B R-050400-33				3	A	
DO NOT SCALE DRAWING				SCALE		N/A		SHEET 1 O	F 1	
			•						•	

EP FORM0005 REV 3 10/01 CAD-FILE: