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R-037400-33

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	mh/1000t	@290 Ampere turns	62	$\pm 20\%$				
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	20 - 70 °C	≤ 0.1	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)	0.370	± 5%	9.40	± 5%			
LH (Length)	4.000	± 2%	101.60	± 2%			
Approximate Weight 33.83 g							

	REVISION HISTORY									
1	REV	ECN	DESCRIPTION	SIGN & DATE						
ŀ	A		Production release	BY	DATE	AP.	DATE			
F	Π		r loudelloir leicase	EO	6/4/13	JL	6/4/13			
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FRONT	VIEV	W	SIDE VIEW							
- add:	4.		tail, specifications and c	ha		~ •				

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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			CWS			SBYTEMAR	ĸ
UNLESS OTHERWISE SPECIFIED	SIGN		DATE	www.cwsb	w.cwsbytemark.com		n 353 West Grove Ave. Orang 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	Ferrite Rod Material 33, MnZi				Zn
TOLERANCE INCHES: .XXX=±.005 .XX=±.015 爻=±0'30' TOLERANCE METRICS:	ENGR.	JL	6/4/13	SIZE DWG. NO.				REV
.xxx=±.127 .xx=±.38 <=±0'30'	APPR.	JL	6/4/13	B	R-037400-33			
DO NOT SCALE DRAWING				SCALE	N/A		SHEET 1	OF 1

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