

Fair-Rite Products Corp. PO Box J,One Commercial Row, Wallkill, NY 12589-0288 Phone: (888) 324-7748 www.fair-rite.com

Fair-Rite Product's Catalog Part Data Sheet, 4033266011 Printed: 2013-07-03



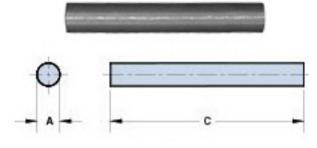


Figure 1

- Part Number:4033266011Frequency Range:Tempature Stable, 33 (ui=600) materialDescription:33 SOLID ROD
- Application: Inductive Components
- Where Used: Open Magnetic Circuit
- Part Type: Rods
- **Mechanical Specifications**

Weight: 5.800 (g)

Part Type Information

Pressed Fair-Rite rods are used extensively in high-energy storage designs. These rods can also be used for inductive components that require temperature stability or have to accommodate large dc bias requirements.

-The 'A' dimension can be centerless ground to tighter tolerances.

-Figure 2 rods have a 0.6 mm (.024") maximum chamfer on the end faces.

-For frequency tuned rod designs see section Antenna/RFID Rods.

-For any rod requirement not listed here, feel free to contact our customer service group for availability and pricing.

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Mechanical Specifications

Dim	mm	mm	nominal	inch
		tol	inch	misc.
А	6.35	±0.25	0.250	-
В	-	-	-	-
С	38.10	±0.75	1.500	-
D	-	-	-	-
E	-	-	-	-
F	-	-	-	-
G	-	-	-	-
Н	-	-	-	-
J	-	-	-	-
К	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)				
Electrical Properties				

Land Patterns

\vee	W	Х	Υ	Z
	ref			
-	-	-	-	-
-	-	-	-	-

Winding Information

Turns	Wire	1st Wire	2nd Wire
Tested	Size	Length	Length
-	-	-	-

Reel Information

Tape Width	Pitch	Parts 7 "	Parts 13 "	Parts 14 "
mm	mm	Reel	Reel	Reel
-	-	-	-	-

Package Size

Pkg S	Size
-	
(-)	

Connector Plate

# Holes	# Rows		
-	-		

Legend

+ Test frequency

Preferred parts, the suggested choice for new designs, have shorter lead times and are more readily available.

The column H(Oe) gives for each bead the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere-turn) product. For the effect of the dc bias on the impedance of the bead material, see figures 18-23 in the application note How to choose Ferrite Components for EMI Suppression.

A ½ turn is defined as a single pass through a hole.

LI/A - Core Constant

A_e: Effective Cross-Sectional Area

 A_{I} - Inductance Factor $\left(\frac{L}{N^{2}}\right)$

N/AWG - Number of Turns/Wire Size for Test Coil

I e: Effective Path Length

V_e: Effective Core Volume

NI - Value of dc Ampere-turns



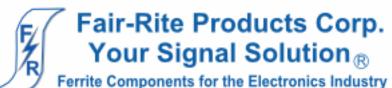
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Ferrite Material Constants

Specific Heat	0.25 cal/g/ºC		
Thermal Conductivity	3.5 - 4.5 mW/cm - °C		
Coefficient of Linear Expansion	8 - 10x10 ⁻⁶ /ºC		
Tensile Strength	4.9 kgf/mm ²		
Compressive Strength	42 kgf/mm ²		
Young's Modulus	15x10 ³ kgf/mm ²		
Hardness (Knoop)	650		
Specific Gravity	\approx 4.7 g/cm ³		
The above quoted properties are typical for Fair-Rite MnZn and NiZn ferrites.			

See next page for further material specifications.



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An economical MnZn ferrite designed for use in open circuit applications for frequencies up to 3.0 MHz.

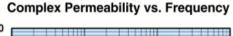
Rods are available in 33 material.

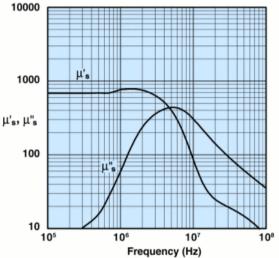
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33 Material Characteristics:

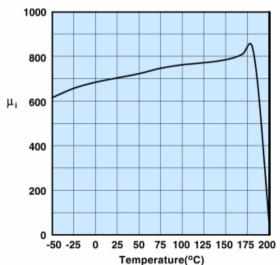
Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ	600
Flux Density	gauss	В	2800
@ Field Strength	oersted	н	5
Residual Flux Density	gauss	B,	1200
Coercive Force	oersted	Hc	0.60
Loss Factor	10-6	tan δ/μ _i	25
@ Frequency	MHz		0.2
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		0.10
Curie Temperature	°C	T _c	>150
Resistivity	Ωcm	ρ	1x10 ²



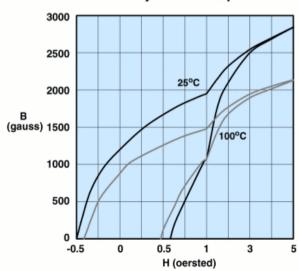


Measured on a 17/10/6mm toroid using the HP 4284A and, the HP 4291A.





Measured on a 17/10/6mm toroid at 100kHz.



Hysteresis Loop

Measured on a 17/10/6mm toroid at 10kHz.

X-ON Electronics

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