

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

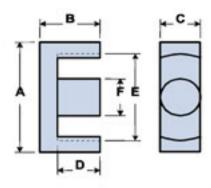
Fair-Rite Product's Catalog Part Data Sheet, 9598283402 Printed: 2012-02-24











Part Number: 9598283402

Frequency Range: Dimensions

Description: 98 EER CORE

Application: Inductive Components

Where Used: Closed Magnetic Circuit

Part Type: EER Cores Genaric Name: EER28/34

Mechanical Specifications

Weight: 32.000 (g)

Part Type Information

EER25.5/18, EER28/28, EER28/34, EER35/42, EER40/46, EER42/44, EER49/54

EER cores, similar to ETD cores, have been designed to make optimum use of a given volume of ferrite material for maximum throughput power. The structure, which includes a round center post, approaches a nearly uniform cross-sectional area that minimizes winding losses.

- -EER cores can be supplied with the centerpost gapped to a mechanical dimension.
- -EER cores can also be supplied to an AL value, these would be supplied in sets.



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Mechanical Specifications

Dim	mm	mm	nominal	inch
		tol	inch	misc.
Α	28.50	± 0.6	1.122	-
В	16.90	± 0.2	0.665	-
С	11.40	± 0.3	0.449	-
D	12.50	± 0.2	0.492	-
E	21.20	min	0.835	min
F	9.90	± 0.3	0.390	-
G	-	-	-	-
Н	-	-	-	-
J	-	-	-	-
К	-	-	-	-

Electrical Specifications

Typical Impedance (Ω)		
Electrical Properties		
A _L (nH)	2710 ±25%	
Ae(cm ²)	0.85200	
Σ I/A(cm ⁻¹)	8.70	
I _e (cm)	7.44	
V _e (cm ³)	6.33700	
A _{min} (cm ²)	.770	

Land Patterns

V	W	Х	Υ	Z
-	-	-		-

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 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.

∠I/A - Core Constant

A_e: Effective Cross-Sectional Area

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

I e: Effective Path Length

Ve: Effective Core Volume

NI - Value of dc Ampere-turns

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