

Part Number: 9598545402

98 ETD CORE SET

**ETD cores have been designed to make optimum use of a given volume of ferrite material for maximum throughput power, specifically for forward converter transformers. The structure, which includes a round center post, approaches a nearly uniform cross-sectional area throughout the core and provides a winding area that minimizes winding losses. ETD cores are used mainly in switched-mode power supplies and permit off-line designs where IEC and VDE isolation requirements must be met.**

□ETD cores can be supplied with the center post gapped to a mechanical dimension or an  $A_L$  value.

[Catalog Drawing](#)

[3D Model](#)

Weight indicated is per pair or set.

Weight: 180 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	54.2	± 1.00	2.134	—
B	27.1	± 0.30	1.067	—
C	18.9	± 0.40	0.744	—
D	19.5	± 0.30	0.768	—
E	40.5	min	1.595	min
F	18.9	± 0.30	0.744	—

### Chart Legend

$\Sigma l/A$  : Core Constant,  $l_e$  : Effective Path Length,  $A_e$  : Effective Cross-Sectional Area,  $V_e$  : Effective Core Volume

$A_L$  : Inductance Factor

Explanation of Part Numbers: Digits 1 & 2 = product class and 3 & 4 = material grade.

Electrical Properties	
$A_L$ (nH)	5400 ±25%
$A_e$ (cm <sup>2</sup> )	2.65

Electrical Properties	
$\Sigma l/A(\text{cm}^{-1})$	4.7
$l_e(\text{cm})$	12.56
$V_e(\text{cm}^3)$	33.3
$A_{\text{min}}(\text{cm}^2)$	2.4

$A_L$  value is measured at 1 kHz,  $B < 10$  gauss

Fair-Rite Products Corp. • One Commercial Row, Wallkill, New York 12589-0288  
888-324-7748 • 845-895-2055 • Fax: 845-895-2629 • ferrites@fair-rite.com • www.fair-rite.com