

# ETD Cores (9578343502)



Part Number: 9578343502

78 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: 40 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	34.2	± 0.65	1.346	—
B	17.3	± 0.20	0.681	—
C	10.8	± 0.30	0.425	—
D	12.1	± 0.20	0.476	—
E	25.6	min	1.008	min
F	10.8	± 0.30	0.425	—



### 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)	2500 ±25%
$A_e$ (cm <sup>2</sup> )	0.972
$\Sigma l / A$ (cm <sup>-1</sup> )	8.2
$l_e$ (cm)	7.9
$V_e$ (cm <sup>3</sup> )	7.68
$A_{min}$ (cm <sup>2</sup> )	0.916

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