

# ETD Cores (9598494902)



Part Number: 9598494902

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.

Weight indicated is per pair or set.

Weight: 124 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	49	± 0.80	1.929	—
B	24.7	± 0.20	0.972	—
C	16.3	± 0.40	0.642	—
D	18.1	± 0.20	0.713	—
E	36.1	min	1.421	min
F	16.3	± 0.40	0.642	—

### 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)	4000 ±25%
$A_e$ (cm <sup>2</sup> )	2.135
$\Sigma l / A$ (cm <sup>-1</sup> )	5.3
$l_e$ (cm)	11.44
$V_e$ (cm <sup>3</sup> )	24.42
$A_{min}$ (cm <sup>2</sup> )	2.09

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