

# ETD Cores (9598606002)



Part Number: 9598606002

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.

Weight indicated is per pair or set.

Weight: 274 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	59.8	± 1.00	2.354	—
B	30	± 0.25	1.181	—
C	21.7	± 0.40	0.854	—
D	22.55	± 0.25	0.888	—
E	43.6	min	1.717	min
F	21.7	± 0.40	0.854	—

**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)	6950 ±25%
$A_e$ (cm <sup>2</sup> )	3.57
$\Sigma l / A$ (cm <sup>-1</sup> )	3.9
$l_e$ (cm)	13.87
$V_e$ (cm <sup>3</sup> )	49.52
$A_{min}$ (cm <sup>2</sup> )	3.23

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