

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.

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 ²)	0.972
$\Sigma l / A$ (cm ⁻¹)	8.2
l_e (cm)	7.9
V_e (cm ³)	7.68
A_{min} (cm ²)	0.916

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