

ETD Cores (9578444502)



Part Number: 9578444502

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: 94 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	44	± 0.75	1.732	—
B	22.3	± 0.20	0.878	—
C	14.8	± 0.35	0.583	—
D	16.5	± 0.20	0.65	—
E	32.5	min	1.28	min
F	14.8	± 0.35	0.583	—

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)	3600 ±25%
A_e (cm ²)	1.73
$\Sigma l / A$ (cm ⁻¹)	6
l_e (cm)	10.35
V_e (cm ³)	17.94
A_{min} (cm ²)	1.717

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