

# ETD Cores (9578494902)



Part Number: 9578494902

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: 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    | 1.422        | 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

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