

# ETD Cores (9578394002)



Part Number: 9578394002

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.

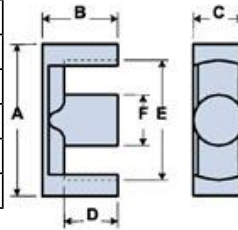
□ETD cores can be supplied with the center post gapped to a mechanical dimension or an  $A_L$  value.

[Catalog Drawing](#)  
[3D Model](#)

Weight indicated is per pair or set.


Weight: 60 (g)

| Dim | mm   | mm tol | nominal inch | inch misc. |
|-----|------|--------|--------------|------------|
| A   | 39.1 | ± 0.70 | 1.539        | —          |
| B   | 19.8 | ± 0.20 | 0.78         | —          |
| C   | 12.7 | ± 0.35 | 0.5          | —          |
| D   | 14.6 | ± 0.20 | 0.575        | —          |
| E   | 29.3 | min    | 1.154        | min        |
| F   | 12.7 | ± 0.35 | 0.5          | —          |



### 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)                         | 3000 ±25% |
| $A_e$ (cm <sup>2</sup> )           | 1.28      |
| $\Sigma l / A$ (cm <sup>-1</sup> ) | 7.2       |
| $l_e$ (cm)                         | 9.24      |
| $V_e$ (cm <sup>3</sup> )           | 11.85     |
| $A_{min}$ (cm <sup>2</sup> )       | 1.267     |

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