

ETD Cores (9598494902)



Part Number: 9598494902

98 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 | — |

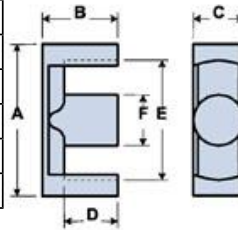



Chart Legend

$\Sigma l / A$: 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 ²) | 2.135 |
| $\Sigma l / A$ (cm ⁻¹) | 5.3 |
| l_e (cm) | 11.44 |
| V_e (cm ³) | 24.42 |
| A_{min} (cm ²) | 2.09 |

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

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