

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.

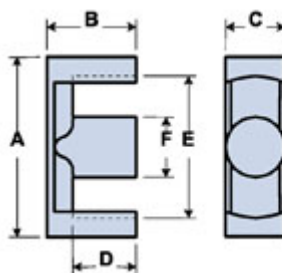
[Catalog Drawing](#)

[3D Model](#)

Weight indicated is per pair or set.

Weight: 60 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	39.1	$\pm 0.70$	1.539	—
B	19.8	$\pm 0.20$	0.78	—
C	12.7	$\pm 0.35$	0.5	—
D	14.6	$\pm 0.20$	0.575	—
E	29.3	min	1.154	min
F	12.7	$\pm 0.35$	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 $\pm 25\%$

Electrical Properties	
$A_e(\text{cm}^2)$	1.28
$\Sigma l/A(\text{cm}^{-1})$	7.2
$l_e(\text{cm})$	9.24
$V_e(\text{cm}^3)$	11.85
$A_{\min}(\text{cm}^2)$	1.267

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

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