

Part Number: 8978202021

78 EFD CORE SET

**EFD (Economical Flat Design) cores have been designed to maximize volume in a low profile geometry. EFD cores allow maximum throughput power density with reasonably low mass for board level installation.**

EFD 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: 7 (g)

| Dim | mm   | mm tol | nominal inch | inch misc. |
|-----|------|--------|--------------|------------|
| A   | 20   | ± 0.55 | 0.787        | —          |
| B   | 10   | ± 0.25 | 0.394        | —          |
| C   | 6.65 | ± 0.20 | 0.262        | —          |
| D   | 7.7  | ± 0.25 | 0.303        | —          |
| E   | 15.4 | ± 0.50 | 0.606        | —          |
| F   | 8.9  | ± 0.30 | 0.35         | —          |
| K   | 3.6  | ± 0.15 | 0.142        | —          |

### 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)                       | 1200 ±25% |
| $A_e$ (cm <sup>2</sup> )         | 0.31      |
| $\Sigma l/A$ (cm <sup>-1</sup> ) | 15.6      |
| $l_e$ (cm)                       | 4.74      |

| Electrical Properties         |      |
|-------------------------------|------|
| $V_e(\text{cm}^3)$            | 1.44 |
| $A_{\text{min}}(\text{cm}^2)$ | 0.29 |

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

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