

## EFD Cores (8978101021)



Part Number: 8978101021

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.

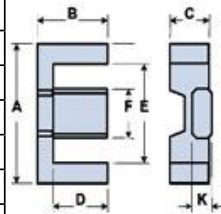
[Catalog Drawing](#)

[3D Drawing](#)

Weight indicated is per pair or set.

Weight: 0.9 (g)

| Dim | mm   | mm tol | nominal inch | inch misc. |
|-----|------|--------|--------------|------------|
| A   | 10.5 | ± 0.30 | 0.413        | —          |
| B   | 5.2  | ± 0.15 | 0.205        | —          |
| C   | 2.7  | ± 0.20 | 0.106        | —          |
| D   | 3.75 | ± 0.15 | 0.148        | —          |
| E   | 7.65 | ± 0.30 | 0.301        | —          |
| F   | 4.55 | ± 0.20 | 0.179        | —          |
| K   | 1.45 | ± 0.10 | 0.057        | —          |



### 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)                         | 530 ±25% |
| $A_e$ (cm <sup>2</sup> )           | 0.072    |
| $\Sigma l / A$ (cm <sup>-1</sup> ) | 32.7     |
| $l_e$ (cm)                         | 2.36     |
| $V_e$ (cm <sup>3</sup> )           | 0.171    |
| $A_{min}$ (cm <sup>2</sup> )       | 0.066    |

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