

# E Cores (9478115002)



Part Number: 9478115002

78 E CORE SET

**The E core geometry offers an economical design approach for inductive applications in a variety of power designs.**

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

Weight indicated is per pair or set.

Weight: 112 (g)

| Dim | mm    | mm tol | nominal inch | inch misc. |
|-----|-------|--------|--------------|------------|
| A   | 42    | ±0.70  | 1.654        | —          |
| B   | 21.2  | ±0.30  | 0.835        | —          |
| C   | 19.85 | ±0.35  | 0.781        | —          |
| D   | 15.15 | ±0.30  | 0.596        | —          |
| E   | 29.5  | min    | 1.161        | min        |
| F   | 11.9  | ±0.30  | 0.469        | —          |

**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)                         | 5200 ±25% |
| $A_e$ (cm <sup>2</sup> )           | 2.35      |
| $\Sigma l / A$ (cm <sup>-1</sup> ) | 4.17      |
| $l_e$ (cm)                         | 9.79      |
| $V_e$ (cm <sup>3</sup> )           | 23.1      |
| $A_{min}$ (cm <sup>2</sup> )       | 2.31      |