Fair-Rite Products Corp.
Your Signal Solution®

# Planar Cores (9498204002)

Part Number: 9498204002

98 PLANAR E CORE SET

Planar EE and EI cores, with their low profile are suitable for board level installation allowing assembly without the need for plastic coilformers and can also allow windings integrated into multi-level PCBs. Planar ER cores with their low mass and low profile are suitable for Surface Mount installations in low power filter and transformer applications.

-Planar EE, ER and EI cores can be supplied with the center post gapped to a mechanical dimension, or an $A_L$ value.

Catalog Drawing
3D Model

Weight: 26 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|---|---|---|---|---|
| A | 31.75 | ± 0.65 | 1.25 | _ |
| B | 6.35 | ± 0.20 | 0.25 | _ |
| C | 20.35 | ± 0.45 | 0.801 | _ |
| D | 3.18 | ± 0.20 | 0.125 | _ |
| E | 24.5 | min | 0.965 | min |
| F | 6.35 | ± 0.15 | 0.25 | _ |

**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) | 6400 ±25% |
| Ae($cm^2$) | 1.29 |
| $\Sigma l/A$($cm^{-1}$) | 3.2 |
| $l_e$(cm) | 4.17 |
| $V_e$($cm^3$) | 5.38 |

| Electrical Properties | |
|---|---|
| $A_{min}(cm^2)$ | 1.27 |

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

Fair-Rite Products Corp. • One Commercial Row, Wallkill, New York 12589-0288
888-324-7748 • 845-895-2055 • Fax: 845-895-2629 • ferrites@fair-rite.com • www.fair-rite.com