



**Fair-Rite Products Corp.**

Your Signal Solution®

## EP Cores (6578100121)



Part Number: 6578100121

78 EP CORE SET

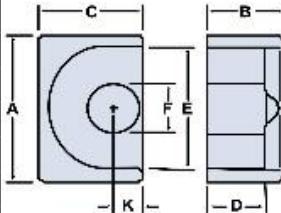
**EP designs reduce the effect of residual air gap upon the effective permeability of the core, hence they minimize coil volume for a given inductance. EP cores also provide a high degree of isolation from adjacent components and are advantageously used in low power devices, matching and broadband transformers.**

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

Weight indicates is per pair or set.

Weight: 1.4 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	11.5	$\pm 0.30$	0.453	—
B	5.1	$\pm 0.20$	0.201	—
C	7.7	$\pm 0.20$	0.303	—
D	3.8	$\pm 0.20$	0.15	—
E	9.4	$\pm 0.20$	0.37	—
F	3.3	$\pm 0.20$	0.13	—
K	1.95	min	0.077	—



### 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)	$1000 \pm 25\%$
$A_e$ (cm <sup>2</sup> )	0.11
$\Sigma l/A$ (cm <sup>-1</sup> )	16.8
$l_e$ (cm)	1.85
$V_e$ (cm <sup>3</sup> )	0.203
$A_{min}$ (cm <sup>2</sup> )	0.085

$A_L$  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](mailto:ferrites@fair-rite.com) • [www.fair-rite.com](http://www.fair-rite.com)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Fair-Rite:](#)

[6578100121](#)