

## EP Cores (6578200121)



Part Number: 6578200121

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.**

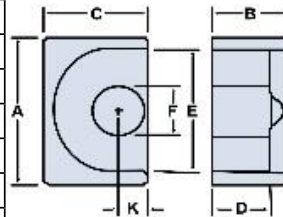
□ EP cores can be supplied with the center post gapped to a mechanical dimension or an  $A_L$  value.

[Catalog Drawing](#)  
[3D Model](#)


Weight indicates is per pair or set.

Weight: 13.5 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	24	± 0.50	0.945	—
B	10.7	± 0.20	0.421	—
C	15	± 0.40	0.591	—
D	7.2	± 0.20	0.283	—
E	16.5	± 0.40	0.65	—
F	8.8	± 0.20	0.346	—
K	4.7	min	0.185	—



### 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)	4100 ±25%
$A_e$ (cm <sup>2</sup> )	0.789
$\Sigma l / A$ (cm <sup>-1</sup> )	4.8
$l_e$ (cm)	3.76
$V_e$ (cm <sup>3</sup> )	2.96
$A_{min}$ (cm <sup>2</sup> )	0.6

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