

EP Cores (6578170121)



Part Number: 6578170121

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: 6 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	18.1	± 0.40	0.713	<input type="checkbox"/>
B	8.4	± 0.40	0.331	<input type="checkbox"/>
C	11	± 0.30	0.433	<input type="checkbox"/>
D	5.7	± 0.20	0.224	<input type="checkbox"/>
E	12	± 0.40	0.472	<input type="checkbox"/>
F	5.7	± 0.20	0.224	<input type="checkbox"/>
K	3.45	min	0.136	<input type="checkbox"/>

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)	2250 ±25%
A_e (cm ²)	0.336
$\Sigma l / A$ (cm ⁻¹)	8
l_e (cm)	2.68
V_e (cm ³)	0.899
A_{min} (cm ²)	0.252

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