Fair-Rite Products Corp.
Your Signal Solution®

EP Cores (6578130121)

Part Number: 6578130121

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: 2.35 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	12.5	± 0.30	0.492	_
B	6.5	± 0.30	0.256	_
C	8.8	± 0.20	0.346	_
D	4.7	± 0.20	0.185	_
E	10	± 0.30	0.394	_
F	4.4	± 0.20	0.173	_
K	2.5	min	0.098	_

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)	1600 ±25%
Ae(cm^2)	0.197
$\Sigma l/A$(cm^{-1})	11.8

Electrical Properties	
l_e(cm)	2.32
V_e(cm^3)	0.457
A_{min}(cm^2)	0.148

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

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