Fair-Rite Products Corp.
Your Signal Solution®

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.

Catalog Drawing
3D Model

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	_
B	8.4	± 0.40	0.331	_
C	11	± 0.30	0.433	_
D	5.7	± 0.20	0.224	_
E	12	± 0.40	0.472	_
F	5.7	± 0.20	0.224	_
K	3.45	min	0.136	_

Chart Legend
Σl/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%
Ae(cm^2)	0.336
Σl/A(cm^{-1})	8

Electrical Properties	
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

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