Fair-Rite Products Corp.
Your Signal Solution®

Planar Cores (7878400421)

Part Number: 7878400421

78 PLANAR EI CORE SET

Planar EE and EI cores, with their low profile are suitable for board level installation allowing assembly without the need for plastic coilformers and can also allow windings integrated into multi-level PCBs. Planar ER cores with their low mass and low profile are suitable for Surface Mount installations in low power filter and transformer applications.

Planar EE, ER and EI cores can be supplied with the center post gapped to a mechanical dimension, or an A_L value.

Catalog Drawing
3D Model

Weight: 24 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	31.75	± 0.50	1.25	_
B	6.35	± 0.15	0.25	_
C	20.32	± 0.40	0.8	_
D	3.18	± 0.15	0.125	_
E	24.5	min	0.965	min
F	6.35	± 0.20	0.25	_
G	3.18	± 0.15	0.125	_

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)	7200 ±25%
Ae(cm^2)	1.3
$\Sigma l/A$(cm^{-1})	2.7
l_e(cm)	3.52

Electrical Properties	
$V_e(cm^3)$	4.57
$A_{min}(cm^2)$	1.29

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

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