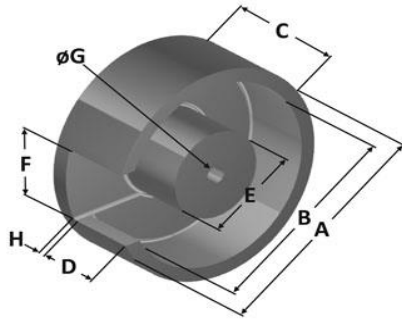




Part Number: **PFS-060030-040-2**

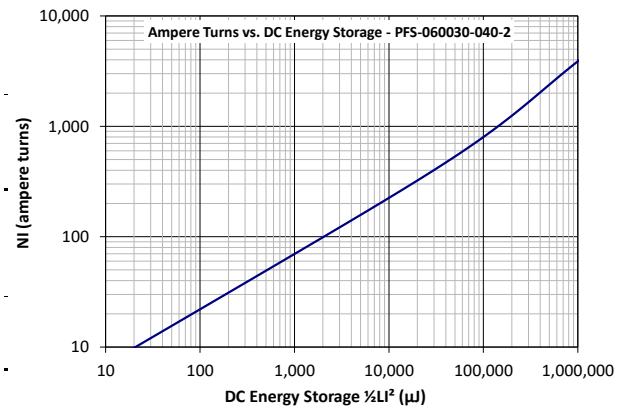
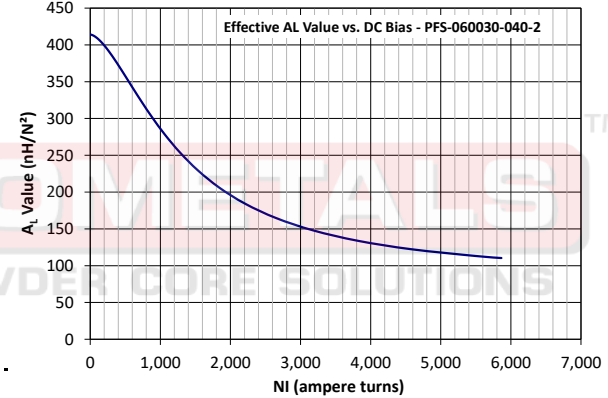
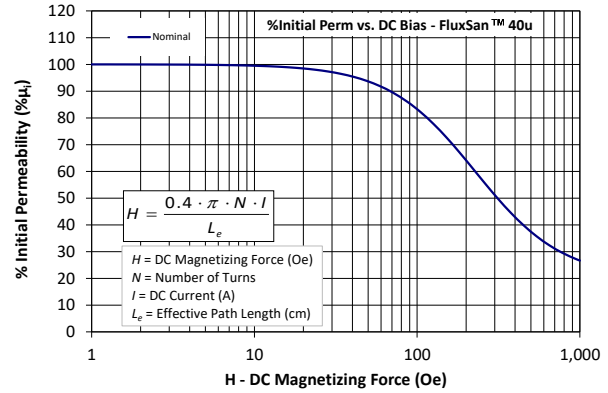
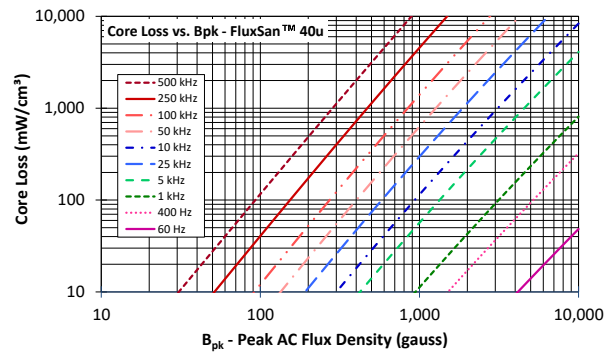
Revision: 2026-May-06



A	60.50 ± 0.50 mm	2.382 ± 0.020 in
B	51.50 ± 0.50 mm	2.028 ± 0.020 in
C	15.00 ± 0.25 mm	0.591 ± 0.010 in
D	7.75 ± 0.25 mm	0.305 ± 0.010 in
E	25.30 ± 0.30 mm	0.996 ± 0.012 in
F	14.80 ± 0.30 mm	0.583 ± 0.012 in
G	4.50 ± 0.10 mm	0.177 ± 0.004 in
Mass	(approximate)	140 grams/half
Magnetic Dimensions	A_e - Eff. Mag. Cross Section 6.07 cm ² L_e - Eff. Mag. Path Length 7.37 cm V_e - Eff. Core Volume 44.7 cm ³ W_A - Min. Eff. Window Area 1.91 cm ² S_a - Surface Area 115 cm ² mlt - mean length per turn 12.1 cm	
Inductance	μ_i (reference) 40 A_L value (nominal) 414 nH/N ² Test Winding N=TBD, #TBD AWG Frequency 10k Hz Voltage on Agilent 4284A TBD A_L tolerance Ref Only	
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$ where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.0000E+06$, $b=3.4823E+08$, $c=4.0626E+06$, $d=2.7985E-14$ B_{pk} 1000 G frequency 50k Hz Core Loss (nominal) 629 mW/cm ³ Core Loss (maximum) 755 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.2495E-02$, $b=1.9267E-06$, $c=1.6176$, $d=19.9871$ H_{DC} 100 Oe Percent Initial Perm(nom.) 83.3 % Percent Initial Perm(min.) 79.0 %	
Coating/Pkg	Coating Type: Blue Epoxy Voltage Breakdown (min.) N/A Limit N/A Package Quantity TBD Halves/Box	

Winding Table	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Full Turns		16	25	38	59	91	141	219	338	524	810	1,254
	Winding Rdc(Ω)		6.3 m	15.7 m	37.9 m	93.6 m	229.7 m	565.9 m	1.4	3.4	8.5	20.8	51.2

Special Spec: Preliminary.



Handling and Storage: Cores should be stored in the original unopened packaging between -10°C and +50°C and less than 60% relative humidity. After the original packaging is opened, the cores should be stored between -8°C and +25°C less than 30% relative humidity. Gloves should be used when handling uncoated cores. The cores should also be sheltered from rain, moisture, salt water, salt air, plasters, ashes, sulfur, sulfur dioxide, ammonia sulfates, soils, acids, metals shavings, and solvents.

Operating Temperature: Cores can be used continuously at operating temperatures between -60°C and +200°C.

RoHS 2.0, REACH and ISO (TS16949, ISO 9001, ISO 14001) compliant. Statements available for download at www.micrometalsapc.com.