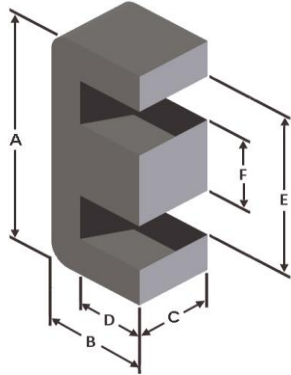




Part Number: EMS-0552821-060
Revision 20190318 - Generated 2019-Mar-18



A	54.9 ± 0.81 mm	2.161 ± 0.032 in
B	27.6 ± 0.41 mm	1.087 ± 0.016 in
C	20.6 ± 0.41 mm	0.811 ± 0.016 in
D	18.5 mm (min.)	0.728 in (min.)
E	37.5 mm (min.)	1.476 in (min.)
F	16.8 ± 0.33 mm	0.661 ± 0.013 in

Mass (approximate) 120 grams/half

Magnetic Dimensions	A_e - Eff. Mag. Cross Section	3.50 cm ²
	L_e - Eff. Mag. Path Length	12.3 cm
	V_e - Eff. Core Volume	43.1 cm ³
	WA - Min. Eff. Window Area	3.77 cm ²
	sa - Surface Area	121 cm ²
	mlt - mean length per turn	11.6 cm

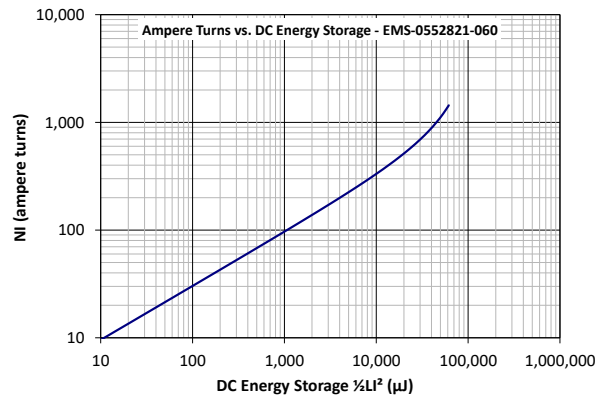
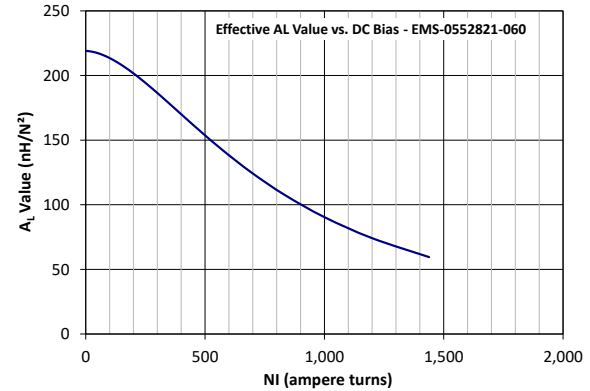
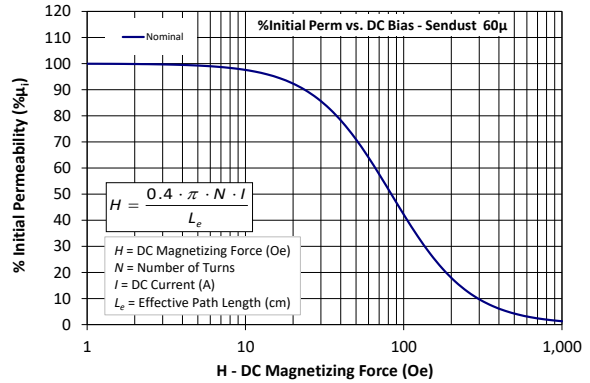
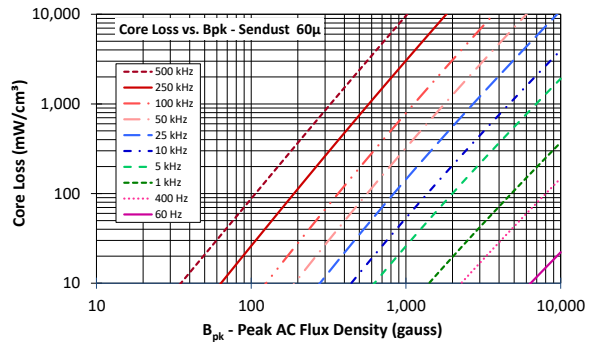
Inductance	μ_i (reference)	60
	A_L value (nominal)	219 nH/N ²
	Test Winding	N=100, #16 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	1.6 V
	A_L tolerance	±8%

Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{a} + \frac{b}{B_{pk}^3} + \frac{c}{B_{pk}^{2.3}} + \frac{d}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=7.89E+09$, $b=7.11E+08$, $c=8.98E+06$, $d=2.85E-14$	
	B_{pk}	1000 G
	frequency	50 kHz
	Core Loss (nominal)	323 mW/cm ³
Core Loss (maximum)	372 mW/cm ³	

DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and: $a=0.01$, $b=4.47E-06$, $c=1.74$, $d=0.00$	
	H_{dc}	100 Oe
	Percent Initial Perm(nom.)	42.2%
Percent Initial Perm(min.)	34.7%	

Coating/Pkg	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	96 Halves/Box

Winding Table	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Full Winding	Turns	20	31	49	75	117	180	279	432	669	1,036	1,603
		Rdc(Ω)	4.8 m	11.8 m	29.6 m	72.1 m	178.8 m	437.6 m	1.1	2.7	6.5	16.1	39.6



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.