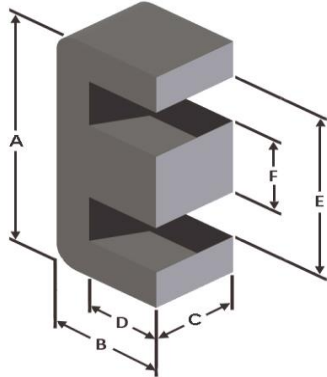




Part Number: EMS-1205532-060

Revision 2021-Dec-02 - Generated 2021-Dec-02



A	120 ± 1.80 mm	4.724 ± 0.071 in
B	55 ± 0.79 mm	2.165 ± 0.031 in
C	31.5 ± 0.64 mm	1.240 ± 0.025 in
D	34.5 mm (min.)	1.358 in (min.)
E	80.4 mm (min.)	3.165 in (min.)
F	39.6 ± 0.71 mm	1.559 ± 0.028 in

Mass (approximate) 840 grams/half

Magnetic Dimensions	A_e - Eff. Mag. Cross Section	12.6 cm ²
	L_e - Eff. Mag. Path Length	24.2 cm
	V_e - Eff. Core Volume	305 cm ³
	WA - Min. Eff. Window Area	13.8 cm ²
	sa - Surface Area	470 cm ²
	mlt - mean length per turn	22.4 cm

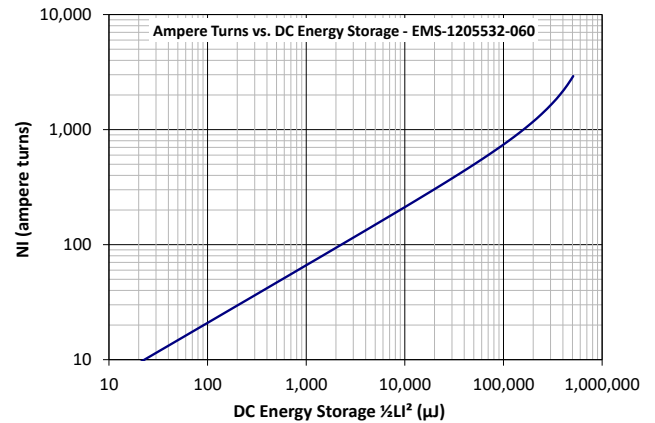
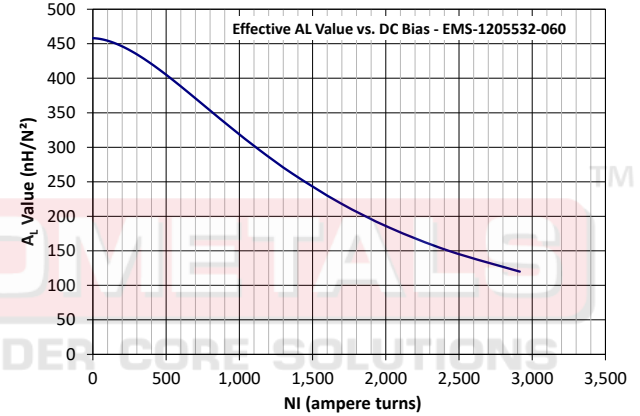
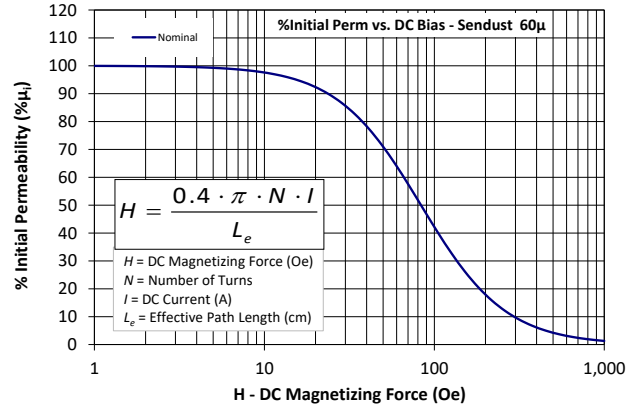
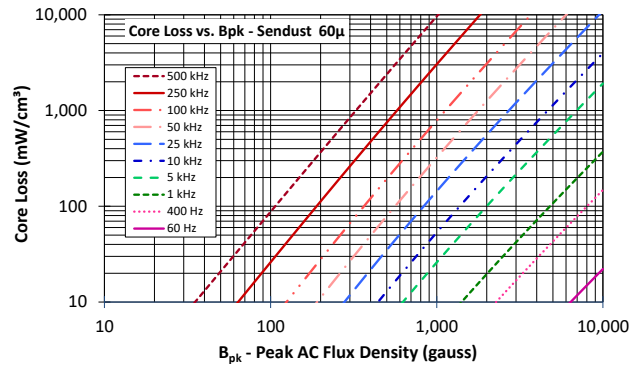
Inductance	μ_i (reference)	60
	A_L value (nominal)	458 nH/N ²
	Test Winding	N=100, #14 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	5.6 V
	A_L tolerance	±8%

Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{B_{pk}^3} + \frac{f}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$	
	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	16 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	75	115	179	276	428	662	1,025	1,587	2,456	3,801	5,882
		Rdc(Ω)	34.5 m	84.2 m	208.3 m	510.9 m	1.3	3.1	7.6	18.8	46.3	113.8	280.2



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.micrometals.com.

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