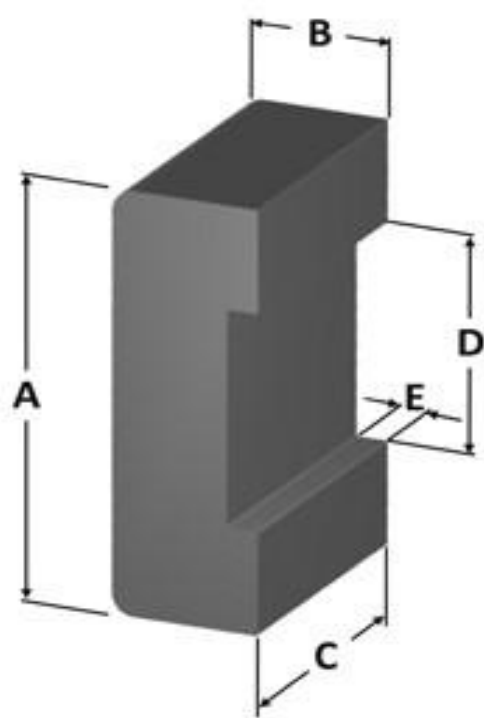




Part Number: **HS300-52B**

Revision 20200407 - Generated 2020-Apr-07



A	25.91 ± 0.38 mm	1.020 ± 0.015 in
B	8.26 ± 0.25 mm	0.325 ± 0.010 in
C	19.05 ± 0.51 mm	0.750 ± 0.020 in
D	13.21 mm (nom.)	0.520 in (nom.)
E	1.78 mm (nom.)	0.070 in (nom.)
Mass	(approximate)	24 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.21 cm ²
	L _e - Eff. Mag. Path Length	5.92 cm
	V _e - Eff. Core Volume	6.92 cm ³
	WA - Min. Eff. Window Area	0.449 cm ²
	sa - Surface Area	24.7 cm ²
Inductance	mlt - mean length per turn	5.82 cm
	μ _i (reference)	75
	A _L value (nominal)	208 nH/N ²
	Test Winding	N=25, #26 AWG
	Frequency	10 kHz
Core Loss	Voltage on Agilent 4284A	0.13 V
	A _L tolerance	±10%
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14	
	B _{pk}	140 G
DC Saturation	frequency	100 kHz
	Core Loss (nominal)	58 mW/cm ³
	Core Loss (maximum)	67 mW/cm ³
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and: a=1.00E-02, b=4.66E-06, c=1.84, d=0.00	
Coating/Pkg	H _{DC}	50 Oe
	Percent Initial Perm(nom.)	61.6%
	Percent Initial Perm(min.)	53.4%
	Coating Type:	Green epoxy, outer surface only
Coating/Pkg	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	600 Halves/Box

