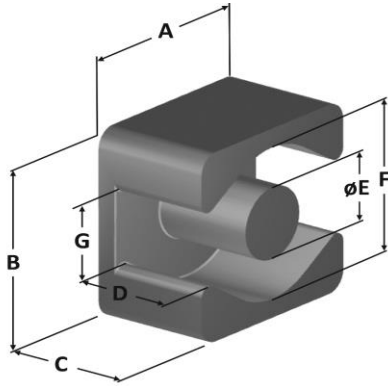




**Part Number:** **HC065A19A-66150**  
 Revision 20200506 - Generated 2020-May-06



<b>A</b>	6.50 ± 0.15 mm	0.256 ± 0.006 in											
<b>B</b>	6.50 ± 0.15 mm	0.256 ± 0.006 in											
<b>C</b>	1.90 ± 0.10 mm	0.075 ± 0.004 in											
<b>D</b>	0.90 mm (min.)	0.036 in (min.)											
<b>E</b>	2.10 ± 0.10 mm	0.083 ± 0.004 in											
<b>F</b>	4.85 mm (min.)	0.191 in (min.)											
<b>G</b>	2.30 mm (nom.)	0.091 in (nom.)											
<b>Mass</b>	(approximate)	0.37 grams/half											
<b>Magnetic Dimensions</b>	when matched with IC (thickness=0.90 mm. nom.)												
	A <sub>e</sub> - Eff. Mag. Cross Section	0.0941 cm <sup>2</sup>											
	L <sub>e</sub> - Eff. Mag. Path Length	0.943 cm											
	V <sub>e</sub> - Eff. Core Volume	0.0982 cm <sup>3</sup>											
	WA - Min. Eff. Window Area	0.0133 cm <sup>2</sup>											
	sa - Surface Area	1.57 cm <sup>2</sup>											
	mlt - mean length per turn	1.12 cm											
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.72E+10, b=4.96E+07, c=1.23E+06, d=1.73E-14												
	B <sub>pk</sub>	140 G											
	frequency	100 kHz											
	Core Loss (nominal)	17 mW/cm <sup>3</sup>											
Core Loss (maximum)	20 mW/cm <sup>3</sup>												
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.00E-02, b=1.23E-05, c=1.48, d=0.00												
	H <sub>DC</sub>	50 Oe											
	Percent Initial Perm.(nom.)	71.0%											
Percent Initial Perm.(min.)	65.1%												
<b>Coating/Pkg</b>	Coating Type:	Per UL Card File #E140098(S), Black, Outer Surface only											
	Voltage Breakdown (min.)	200Vrms, 60Hz											
	Limit	3 mA, 5 s											
	Package Quantity	14,000 Halves/Box											
<b>Winding Table</b>	<b>Wire Size</b>	AWG	30	32	34	36	38	40	42	44	#N/A	#N/A	#N/A
		mm	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	#N/A	#N/A	#N/A
	<b>Full Winding</b>	Turns	9	14	21	32	50	78	120	186	#N/A	#N/A	#N/A
		Rdc(Ω)	34.0 m	84.1 m	200.6 m	486.1 m	1.2	3.0	7.3	18.1	#N/A	#N/A	#N/A

