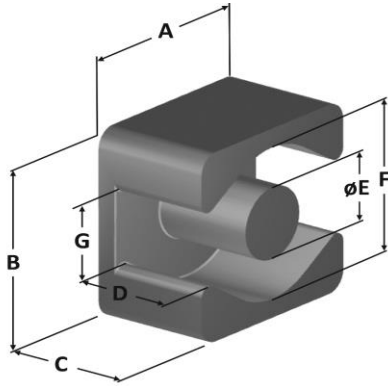




Part Number: **HC065A19A-65000**
 Revision 20200506 - Generated 2020-May-06



A	6.50 ± 0.15 mm	0.256 ± 0.006 in
B	6.50 ± 0.15 mm	0.256 ± 0.006 in
C	1.90 ± 0.10 mm	0.075 ± 0.004 in
D	0.90 mm (min.)	0.036 in (min.)
E	2.10 ± 0.10 mm	0.083 ± 0.004 in
F	4.85 mm (min.)	0.191 in (min.)
G	2.30 mm (nom.)	0.091 in (nom.)
Mass	(approximate)	0.37 grams/half

Magnetic Dimensions	when matched with IC (thickness=0.90 mm. nom.)	
	A _e - Eff. Mag. Cross Section	0.0941 cm ²
	L _e - Eff. Mag. Path Length	0.943 cm
	V _e - Eff. Core Volume	0.0982 cm ³
	WA - Min. Eff. Window Area	0.0133 cm ²
	sa - Surface Area	1.57 cm ²
	mlt - mean length per turn	1.12 cm

Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=6.90E+09, b=6.00E+07, c=1.10E+06, d=2.50E-14	
	B _{pk}	140 G
	frequency	100 kHz
	Core Loss (nominal)	33 mW/cm ³
	Core Loss (maximum)	38 mW/cm ³

DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and: a=1.00E-02, b=6.16E-06, c=1.50, d=0.00	
	H _{DC}	100 Oe
	Percent Initial Perm.(nom.)	62.1%
	Percent Initial Perm.(min.)	55.5%

Coating/Pkg	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

Winding Table	Wire Size	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
	Full Winding	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

