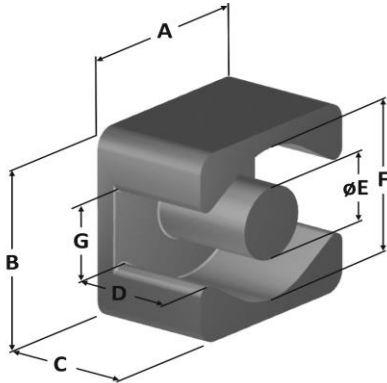




Part Number: **HC054B31A-66000**

Revision 20200506 - Generated 2020-May-06



A	5.40 ± 0.15 mm	0.213 ± 0.006 in
B	5.10 ± 0.15 mm	0.201 ± 0.006 in
C	3.15 ± 0.10 mm	0.124 ± 0.004 in
D	2.40 mm (min.)	0.095 in (min.)
E	1.80 ± 0.10 mm	0.071 ± 0.004 in
F	4.10 mm (min.)	0.161 in (min.)
G	2.20 mm (nom.)	0.087 in (nom.)
Mass	(approximate)	0.31 grams/half

Magnetic Dimensions	when matched with IC (thickness=0.65 mm. nom.)	
	A _e - Eff. Mag. Cross Section	0.0582 cm ²
	L _e - Eff. Mag. Path Length	1.09 cm
	V _e - Eff. Core Volume	0.0682 cm ³
	WA - Min. Eff. Window Area	0.0275 cm ²
	sa - Surface Area	1.35 cm ²
	mlt - mean length per turn	0.950 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=1.72E+10, b=4.96E+07, c=1.23E+06, d=1.73E-14	
	B _{pk}	140 G
	frequency	100 kHz
	Core Loss (nominal)	17 mW/cm ³
	Core Loss (maximum)	20 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=1.23E-05, c=1.48, d=0.00	
	H _{DC}	50 Oe
	Percent Initial Perm.(nom.)	71.0%
	Percent Initial Perm.(min.)	65.1%

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	24,000 Halves/Box

Winding Table	Wire Size	AWG	26	28	30	32	34	36	38	40	42	44	#N/A
		mm	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	#N/A
	Full Winding	Turns	8	12	18	28	43	67	104	161	249	385	#N/A
		Rdc(Ω)	10.2 m	24.3 m	57.9 m	143.3 m	349.9 m	867.1 m	2.1	5.3	13.0	31.9	#N/A

