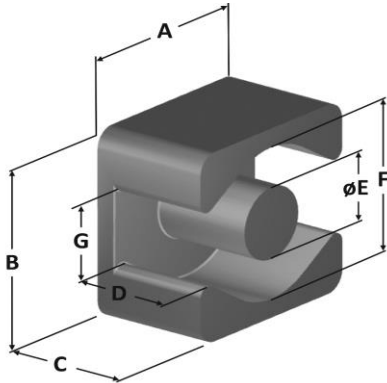




Part Number:

HC065B20A-65040

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	2.00 ± 0.10 mm	0.079 ± 0.004 in
D	1.10 mm (min.)	0.043 in (min.)
E	2.70 ± 0.10 mm	0.106 ± 0.004 in
F	5.05 mm (min.)	0.199 in (min.)
G	2.30 mm (nom.)	0.091 in (nom.)
Mass	(approximate)	0.38 grams/half

Magnetic Dimensions	when matched with IC (thickness=0.80 mm. nom.)	
	A _e - Eff. Mag. Cross Section	0.0956 cm ²
	L _e - Eff. Mag. Path Length	0.945 cm
	V _e - Eff. Core Volume	0.0956 cm ³
	WA - Min. Eff. Window Area	0.0135 cm ²
	sa - Surface Area	1.57 cm ²
	mlt - mean length per turn	1.24 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
DC Saturation	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%
Coating/Pkg	Percent Initial Perm.(min.)	55.5%
	Coating Type:	Per UL Card File #E140098(S), Black, Outer Surface only
	Voltage Breakdown (min.)	200Vrms, 60Hz
Winding Table	Limit	3 mA, 5 s
	Package Quantity	16,800 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	33	51	79	122	189	#N/A	#N/A	#N/A
		Rdc(Ω)	37.8 m	93.5 m	223.1 m	557.6 m	1.4	3.4	8.3	20.4	#N/A	#N/A	#N/A

