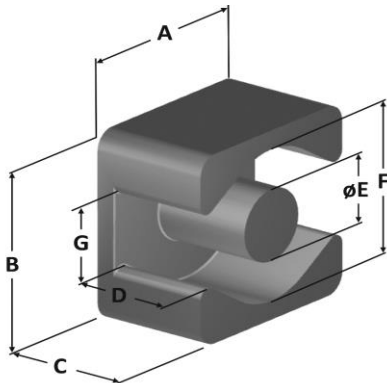




Part Number: **HC070A37A-52120**

Revision 20200506 - Generated 2020-May-06



A	7.10 ± 0.20 mm	0.280 ± 0.008 in
B	6.95 ± 0.15 mm	0.274 ± 0.006 in
C	3.75 ± 0.10 mm	0.148 ± 0.004 in
D	2.73 mm (min.)	0.108 in (min.)
E	2.62 ± 0.10 mm	0.103 ± 0.004 in
F	5.75 mm (min.)	0.226 in (min.)
G	3.50 mm (nom.)	0.138 in (nom.)
Mass	(approximate)	0.75 grams/half

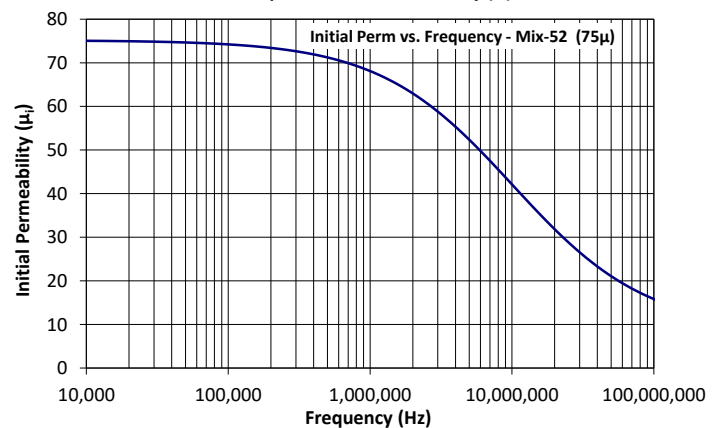
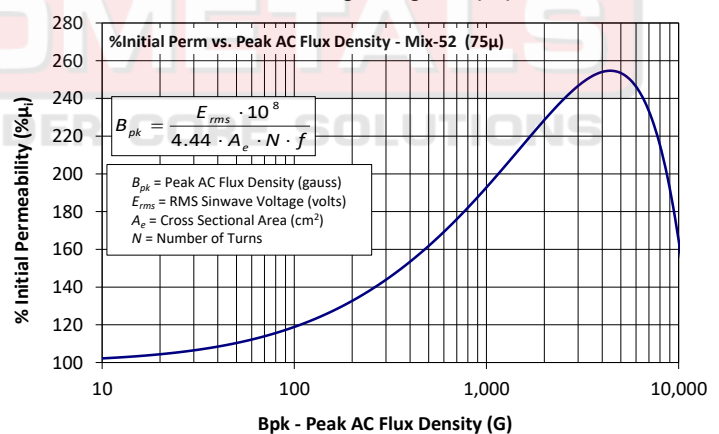
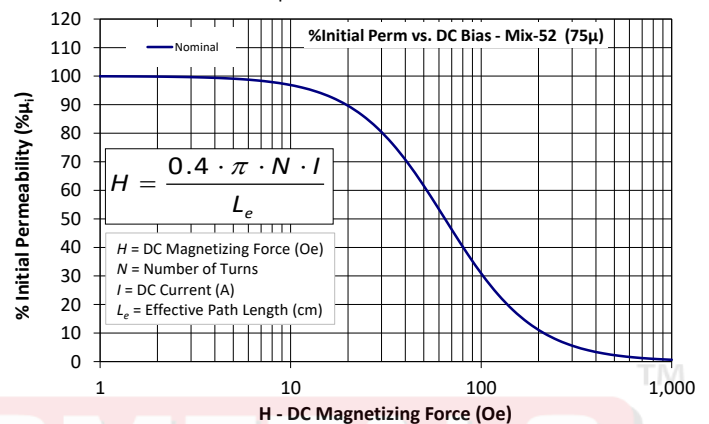
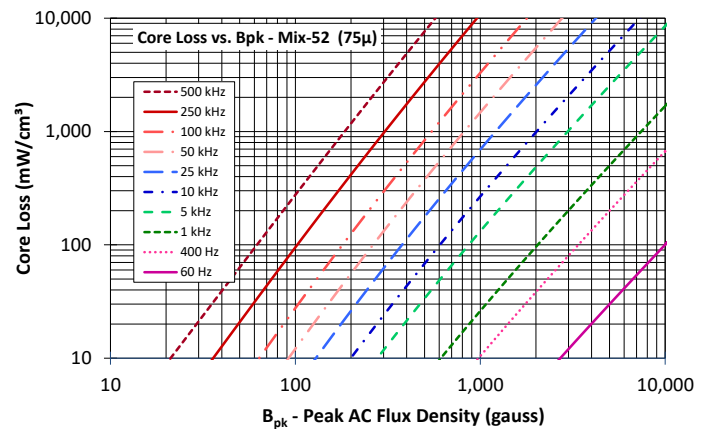
Magnetic Dimensions	when matched with IC (thickness=0.92 mm. nom.)	
	A _e - Eff. Mag. Cross Section	0.103 cm ²
	L _e - Eff. Mag. Path Length	1.37 cm
	V _e - Eff. Core Volume	0.153 cm ³
	WA - Min. Eff. Window Area	0.0429 cm ²
	sa - Surface Area	2.30 cm ²
	mlt - mean length per turn	1.34 cm

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=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14	
	B _{pk}	140 G
	frequency	100 kHz
DC Saturation	Core Loss (nominal)	58 mW/cm ³
	Core Loss (maximum)	67 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=4.66E-06, c=1.84, d=0.00	
	H _{DC}	50 Oe
Coating/Pkg	Percent Initial Perm(nom.)	61.6%
	Percent Initial Perm(min.)	53.4%

DC S.	H _{DC}	50 Oe
	Percent Initial Perm.(nom.)	61.6%
	Percent Initial Perm.(min.)	53.4%
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	24	26	28	30	32	34	36	38	40	42	44
		mm	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050
	Full Winding	Turns	8	12	18	28	44	68	105	162	251	388	601
		Rdc(Ω)	9.0 m	21.5 m	51.3 m	126.8 m	317.0 m	779.1 m	1.9	4.7	11.6	28.4	70.1



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