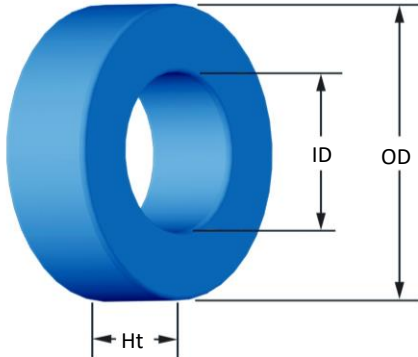




Part Number: **HF-130125-2**

Revision 2021-Dec-01 - Generated 2021-Dec-01



(If coated, Max./Min. includes coating)

OD	(nom. - bare core) (max.)	33.02 mm 33.83 mm	1.300 in 1.332 in
ID	(nom. - bare core) (min.)	19.94 mm 19.30 mm	0.785 in 0.760 in
HT	(nom. - bare core) (max.)	10.67 mm 11.61 mm	0.420 in 0.457 in
Mass	(approximate)	42 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.672 cm ²	
	L _e - Eff. Mag. Path Length	8.15 cm	
	V _e - Eff. Core Volume	5.48 cm ³	
	WA - Min. Eff. Window Area	2.93 cm ²	
	sa - Surface Area	40.1 cm ²	
Inductance	μ _i (reference)	125	
	A _L value (nominal)	127 nH/N ²	
	Test Winding	N=70, #22 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.21 V	
AL tolerance	±8%		
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=3.540E+10, b=6.826E+08, c=2.688E+06, d=6.077E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	482 mW/cm ³	
Core Loss (maximum)	554 mW/cm ³		
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=7.955E-07, c=2.174, d=0.000		
	H _{dc}	40 Oe	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	384 Pcs/Box	

Winding Table	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer	Turns	14	18	22	29	36	46	58	73	91	114	142
		Rdc(Ω)	1.4 m	2.8 m	5.4 m	11.4 m	22.4 m	45.6 m	91.5 m	183.1 m	363.0 m	723.2 m	1.4
Full Winding	Turns	15	24	37	57	88	136	211	326	504	780	1,208	
	Rdc(Ω)	1.5 m	3.7 m	9.1 m	22.3 m	54.9 m	134.9 m	332.8 m	817.6 m	2.0	4.9	12.2	

