



Part Number: HF-014125-8

Revision 20190529 - Generated 2019-May-29



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

OD	(nom. - bare core) (max.)	3.56 mm 3.76 mm	0.140 in 0.148 in
ID	(nom. - bare core) (min.)	1.78 mm 1.52 mm	0.070 in 0.060 in
HT	(nom. - bare core) (max.)	1.52 mm 1.73 mm	0.060 in 0.068 in
Mass	(approximate)	0.08 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0137 cm ²	
	L _e - Eff. Mag. Path Length	0.817 cm	
	V _e - Eff. Core Volume	0.0107 cm ³	
	WA - Min. Eff. Window Area	0.0181 cm ²	
	sa - Surface Area	0.523 cm ²	
Inductance	μ _i (reference)	125	
	A _L value (nominal)	26 nH/N ²	
Core Loss	Test Winding	N=30, #36 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.002 V	
	AL tolerance	±8%	
	Core Loss(mW/cm ³)=	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
DC Saturation	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	
Coating/Pkg	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	36,000 Pcs/Box	

Winding Table	Wire Size	AWG	30	32	34	36	38	40	42	44	-	-	-
		mm	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-	-	-
	Single Layer	Turns	11	15	19	25	31	40	50	63	-	-	-
		Rdc(Ω)	24.1 m	52.2 m	105.1 m	219.9 m	433.7 m	890.0 m	1.8	3.5	-	-	-
Full Winding	Turns	12	18	28	43	67	103	159	247	-	-	-	
	Rdc(Ω)	26.2 m	62.6 m	154.9 m	378.3 m	937.3 m	2.3	5.6	13.9	-	-	-	

