



**Part Number:** OP-068014-2H127  
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<b>OD</b>	(nom. - bare core) (max. - after coating)	17.27 mm 18.03 mm	0.680 in 0.710 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	9.65 mm 9.02 mm	0.380 in 0.355 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	12.70 mm 13.46 mm	0.500 in 0.530 in
<b>Mass</b>	(approximate)	11 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.464 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	4.14 cm	
	V <sub>e</sub> - Eff. Core Volume	1.92 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	0.639 cm <sup>2</sup>	
	sa - Surface Area	15.8 cm <sup>2</sup>	
	mlt - mean length per turn	4.04 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	14	
	A <sub>L</sub> value (nominal)	20 nH/N <sup>2</sup>	
	Test Winding	N=70, #28 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.14 V	
AL tolerance	±8%		
<b>Core Loss</b>	Core Loss(mW/cm <sup>3</sup> )= $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=2.387E+08, c=5.595E+06, d=7.000E-14		
	B <sub>pk</sub>	300 G	
	frequency	100 kHz	
	Core Loss (nominal)	170 mW/cm <sup>3</sup>	
Core Loss (maximum)	195 mW/cm <sup>3</sup>		
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=4.952E-07, c=1.559, d=0.000		
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm.(nom.)	83.9%	
Percent Initial Perm.(min.)	79.7%		
<b>Coating/Pkg</b>	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	900 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	AWG	14	16	18	20	22	24	26	28	30	32	34
		mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160
	<b>Single Layer</b>	Turns	12	15	20	26	32	41	52	65	82	102	128
		Rdc(Ω)	4.0 m	8.0 m	16.9 m	35.0 m	68.5 m	139.5 m	281.4 m	559.5 m	1.1	2.2	4.4
<b>Full Winding</b>	Turns	12	19	30	46	71	110	170	264	408	632	978	
	Rdc(Ω)	4.0 m	10.1 m	25.4 m	61.9 m	151.9 m	374.3 m	920.1 m	2.3	5.6	13.8	33.9	

