



Part Number: OP-068026-2H127
Revision 20160816 - Generated 2016-Aug-16



OD	(nom. - bare core)	17.27 mm	0.680 in
	(max. - after coating)	18.03 mm	0.710 in
ID	(nom. - bare core)	9.65 mm	0.380 in
	(min. - after coating)	9.02 mm	0.355 in
Ht	(nom. - bare core)	12.70 mm	0.500 in
	(max. - after coating)	13.46 mm	0.530 in

Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.464 cm ²
	L _e - Eff. Mag. Path Length	4.14 cm
	V _e - Eff. Core Volume	1.92 cm ³
	WA - Min. Eff. Window Area	0.639 cm ²
	sa - Surface Area	15.8 cm ²
	mlt - mean length per turn	4.04 cm

Inductance	μ _i (reference)	26
	A _L value (nominal)	38 nH/N ²
	Test Winding	N=70, #28 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.14 V
	AL tolerance	±8%

Core Loss	Core Loss(mW/cm ³)= $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=4.732E+08, c=5.789E+06, d=7.000E-14	
	B _{pk}	300 G
	frequency	100 kHz
	Core Loss (nominal)	133 mW/cm ³
Core Loss (maximum)	153 mW/cm ³	

DC Saturation	%μ _i = $\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and: a=1.000E-02, b=1.566E-06, c=1.557, d=0.000	
	H _{DC}	200 Oe
	Percent Initial Perm.(nom.)	62.5%
Percent Initial Perm.(min.)	55.7%	

Coating/Pkg	Coating Type:	Blue Epoxy
	Voltage Breakdown (min.)	1000 Vrms
	Limit	0.1 mA, 5 s
	Package Quantity	900 Pcs/Box

Winding Table	Wire Size	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
	Single Layer	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
Full Winding	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	

