



Part Number: **OP-026125-8**
 Revision 20160816 - Generated 2016-Aug-16



OD	(nom. - bare core)	6.60 mm	0.260 in										
	(max. - after coating)	7.32 mm	0.288 in										
ID	(nom. - bare core)	2.67 mm	0.105 in										
	(min. - after coating)	2.21 mm	0.087 in										
Ht	(nom. - bare core)	4.78 mm	0.188 in										
	(max. - after coating)	5.54 mm	0.218 in										
Mass	(approximate)	0.90 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0920 cm ²											
	L _e - Eff. Mag. Path Length	1.36 cm											
	V _e - Eff. Core Volume	0.125 cm ³											
	WA - Min. Eff. Window Area	0.0384 cm ²											
	sa - Surface Area	2.44 cm ²											
	mlt - mean length per turn	1.73 cm											
	Inductance	μ _i (reference)	125										
Core Loss	A _L value (nominal)	103 nH/N ²											
	Test Winding	N=35, #32 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.014 V											
	AL tolerance	±8%											
DC Saturation	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=3.954E+09, b=2.598E+09, c=3.654E+06, d=5.000E-14												
	B _{pk}	1000 G											
	frequency	50 kHz											
	Core Loss (nominal)	259 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=3.545E-06, c=1.863, d=0.000												
	H _{DC}	40 Oe											
	Percent Initial Perm.(nom.)	74.5%											
Coating/Pkg	Percent Initial Perm.(min.)	67.5%											
	Coating Type:	Parylene N											
	Voltage Breakdown (min.)	500 Vrms											
	Limit	0.1 mA, 5 s											
Winding Table	Package Quantity	14,400 Pcs/Box											
	Wire Size	AWG	26	28	30	32	34	36	38	40	42	44	-
		mm	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-
	Single Layer	Turns	11	14	18	23	29	37	47	59	74	93	-
		Rdc(Ω)	25.5 m	51.5 m	105.4 m	214.2 m	429.4 m	871.4 m	1.8	3.5	7.0	14.0	-
	Full Winding	Turns	10	16	25	38	59	91	141	218	337	522	-
		Rdc(Ω)	23.1 m	58.9 m	146.4 m	353.8 m	873.7 m	2.1	5.3	13.0	31.9	78.6	-

