



Part Number: T106-40A

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	26.92 mm 27.43 mm	1.060 in 1.080 in										
ID	(nom. - bare core) (min. - after coating)	14.48 mm 13.97 mm	0.570 in 0.550 in										
Ht	(nom. - bare core) (max. - after coating)	7.92 mm 8.56 mm	0.312 in 0.337 in										
Mass	(approximate)	21 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.461 cm ²											
	L _e - Eff. Mag. Path Length	6.49 cm											
	V _e - Eff. Core Volume	3.00 cm ³											
	WA - Min. Eff. Window Area	1.53 cm ²											
	sa - Surface Area	25.0 cm ²											
	mlt - mean length per turn	3.76 cm											
Inductance	μ _i (reference)	60											
	A _L value (nominal)	58 nH/N ²											
	Test Winding	N=100, #28 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.20 V											
Core Loss	A _L tolerance	±10%											
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.10E+09, b=3.30E+07, c=2.50E+06, d=3.10E-13												
	B _{pk}	140 G											
	frequency	100 kHz											
	Core Loss (nominal)	127 mW/cm ³											
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.00E-02, b=8.93E-06, c=1.61, d=0.00												
	H _{DC}	50 Oe											
	Percent Initial Perm(nom.)	67.0%											
Coating/Pkg	Percent Initial Perm(min.)	60.2%											
	Coating Type:	Green/Yellow Epoxy Paint											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
	Limit	3 mA, 5 s											
Winding Table	Package Quantity	1,000 Pcs/Box											
	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	12	15	20	26	32	41	52	65	82	102	128
		Rdc(Ω)	1.5 m	2.9 m	6.2 m	12.8 m	25.1 m	51.2 m	103.4 m	205.5 m	412.3 m	815.6 m	1.6
	Full Winding	Turns	12	19	30	46	71	110	171	264	409	633	980
		Rdc(Ω)	1.5 m	3.7 m	9.3 m	22.7 m	55.8 m	137.5 m	339.9 m	834.6 m	2.1	5.1	12.5

