



Part Number: T400-2

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	101.60 mm 102.87 mm	4.000 in 4.050 in
ID	(nom. - bare core) (min. - after coating)	57.15 mm 55.88 mm	2.250 in 2.200 in
Ht	(nom. - bare core) (max. - after coating)	16.51 mm 17.78 mm	0.650 in 0.700 in
Mass	(approximate)	430 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	3.46 cm ²	
	L _e - Eff. Mag. Path Length	25.0 cm	
	V _e - Eff. Core Volume	86.4 cm ³	
	WA - Min. Eff. Window Area	24.5 cm ²	
	sa - Surface Area	303 cm ²	
Inductance	μ _i (reference)	10	
	A _L value (nominal)	18 nH/N ²	
	Test Winding	N=40, #20 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	1.0 V	
Core Loss & Q	A _L tolerance	±5%	
	Core Loss(mW/cm ³)=	$\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and:	a=4.00E+09, b=3.00E+08, c=2.70E+06, d=9.60E-16	
	Q test winding	N=40, #20 AWG	
	Q frequency	1.4 MHz	
DC Saturation	Q min on HP4342A	261	
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	a=1.00E-02, b=1.83E-07, c=1.46, d=0.00	
	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	95.9%	
Coating/Pkg	Percent Initial Perm(min.)	94.8%	
	Coating Type:	Red/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
Winding Table	Package Quantity	21 Pcs/Box	
	Wire Size	AWG	8 10 12 14 16 18 20 22 24 26 28
Single Layer	mm	3.150 2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315	
	Turns	45 56 70 88 111 138 173 216 269 335 418	
Full Winding	Rdc(Ω)	10.2 m 20.2 m 40.2 m 80.4 m 161.3 m 319.0 m 636.0 m 1.3 2.5 5.0 9.8	
	Turns	128 199 308 476 737 1,140 1,765 2,731 4,227 6,543 10,127	
Full Winding	Rdc(Ω)	29.1 m 71.9 m 177.0 m 435.0 m 1.1 2.6 6.5 16.0 39.3 96.8 238.2	

