



Part Number: **T184-6**

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OD	(nom. - bare core) (max. - after coating)	46.74 mm 47.37 mm	1.840 in 1.865 in
ID	(nom. - bare core) (min. - after coating)	24.13 mm 23.50 mm	0.950 in 0.925 in
Ht	(nom. - bare core) (max. - after coating)	18.03 mm 18.80 mm	0.710 in 0.740 in
Mass	(approximate)	110 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.88 cm ²	
	L _e - Eff. Mag. Path Length	11.2 cm	
	V _e - Eff. Core Volume	21.0 cm ³	
	WA - Min. Eff. Window Area	4.34 cm ²	
	sa - Surface Area	80.9 cm ²	
Inductance	μ _i (reference)	8.5	
	A _L value (nominal)	19.5 nH/N ²	
	Test Winding	N=100, #24 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.83 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=8.90E-16	
	Q test winding	N=20, #20 AWG	
	Q frequency	5 MHz	
DC Saturation	Q min on HP4342A	324	
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	a=1.00E-02, b=4.87E-08, c=1.57, d=0.00	
	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	98.1%	
Coating/Pkg	Percent Initial Perm(min.)	97.4%	
	Coating Type:	Yellow/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
Winding Table	Package Quantity	140 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	17 22 28 36 45 57 71 89 111 139 174	
Full Winding	Rdc(Ω)	2.6 m 5.3 m 10.7 m 21.8 m 43.3 m 87.3 m 173.0 m 344.8 m 683.9 m 1.4 2.7	
	Turns	23 35 54 84 130 202 312 483 747 1,157 1,790	
Full Winding	Rdc(Ω)	3.5 m 8.4 m 20.6 m 50.9 m 125.2 m 309.4 m 760.0 m 1.9 4.6 11.3 27.9	

