



Part Number: **T44-6**

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OD	(nom. - bare core) (max. - after coating)	11.18 mm 11.68 mm	0.440 in 0.460 in
ID	(nom. - bare core) (min. - after coating)	5.82 mm 5.31 mm	0.229 in 0.209 in
Ht	(nom. - bare core) (max. - after coating)	4.04 mm 4.55 mm	0.159 in 0.179 in
Mass	(approximate)	1.3 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0990 cm ²	
	L _e - Eff. Mag. Path Length	2.68 cm	
	V _e - Eff. Core Volume	0.266 cm ³	
	WA - Min. Eff. Window Area	0.221 cm ²	
	sa - Surface Area	4.81 cm ²	
Inductance	μ _i (reference)	8.5	
	A _L value (nominal)	4.2 nH/N ²	
	Test Winding	N=100, #34 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=8.90E-16	
	Q test winding	N=15, #22 AWG	
	Q frequency	10 MHz	
DC Saturation	Q min on HP4342A	209	
	%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	10,000 Pcs/Box	
	Wire Size	AWG	18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38
Single Layer	mm	1.000, 0.800, 0.630, 0.500, 0.400, 0.315, 0.250, 0.200, 0.160, 0.125, 0.100	
	Turns	11, 14, 18, 23, 29, 37, 47, 59, 74, 93, 116	
Full Winding	Rdc(Ω)	4.2 m, 8.4 m, 17.3 m, 35.1 m, 70.3 m, 142.7 m, 288.3 m, 575.7 m, 1.1, 2.3, 4.6	
	Turns	10, 16, 25, 38, 59, 91, 141, 219, 339, 524, 812	
Full Winding	Rdc(Ω)	3.8 m, 9.6 m, 24.0 m, 58.0 m, 143.1 m, 351.0 m, 865.0 m, 2.1, 5.3, 12.9, 31.9	

