



Part Number: T200-2

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OD	(nom. - bare core) (max. - after coating)	50.80 mm 51.44 mm	2.000 in 2.025 in
ID	(nom. - bare core) (min. - after coating)	31.75 mm 31.12 mm	1.250 in 1.225 in
Ht	(nom. - bare core) (max. - after coating)	13.97 mm 14.73 mm	0.550 in 0.580 in
Mass	(approximate)	82 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.27 cm ²	
	L _e - Eff. Mag. Path Length	13.0 cm	
	V _e - Eff. Core Volume	16.4 cm ³	
	WA - Min. Eff. Window Area	7.60 cm ²	
	sa - Surface Area	88.4 cm ²	
Inductance	μ _i (reference)	10	
	A _L value (nominal)	12 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)=	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and:	a=4.00E+09, b=3.00E+08, c=2.70E+06, d=9.60E-16	
	Q test winding	N=40, #20 AWG	
	Q frequency	2 MHz	
DC Saturation	Q min on HP4342A	332	
	%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	120 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	24 30 38 48 60 76 95 119 149 185 231	
Full Winding	Rdc(Ω)	3.2 m 6.4 m 12.9 m 25.9 m 51.6 m 103.9 m 206.5 m 411.4 m 819.3 m 1.6 3.2	
	Turns	40 62 95 148 228 353 547 847 1,311 2,029 3,140	
Full Winding	Rdc(Ω)	5.4 m 13.2 m 32.3 m 80.0 m 196.0 m 482.5 m 1.2 2.9 7.2 17.7 43.7	

