



Part Number: **T20-2**

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OD	(nom. - bare core) (max. - after coating)	5.08 mm 5.33 mm	0.200 in 0.210 in
ID	(nom. - bare core) (min. - after coating)	2.24 mm 1.98 mm	0.088 in 0.078 in
Ht	(nom. - bare core) (max. - after coating)	1.78 mm 2.03 mm	0.070 in 0.080 in
Mass	(approximate)	0.13 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0230 cm ²	
	L _e - Eff. Mag. Path Length	1.15 cm	
	V _e - Eff. Core Volume	0.0260 cm ³	
	WA - Min. Eff. Window Area	0.0308 cm ²	
	sa - Surface Area	0.962 cm ²	
Inductance	μ _i (reference)	10	
	A _L value (nominal)	2.5 nH/N ²	
	Test Winding	N=50, #36 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	0.51 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=50, #36 AWG	
	Q frequency	5.5 MHz	
DC Saturation	Q min on HP4342A	104	
	%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:	Parylene C	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
Winding Table	Package Quantity	100,000 Pcs/Box	
	Wire Size	AWG	28 30 32 34 36 38 40 42 44 #N/A #N/A
Single Layer	mm	0.315 0.250 0.200 0.160 0.125 0.100 0.080 0.063 0.050 #N/A #N/A	
	Turns	12 16 20 26 33 42 52 66 83 #N/A #N/A	
Full Winding	Rdc(Ω)	21.5 m 45.5 m 90.5 m 187.2 m 377.8 m 764.7 m 1.5 3.0 6.1 #N/A #N/A	
	Turns	13 20 30 47 73 113 175 271 419 #N/A #N/A	
Full Winding	Rdc(Ω)	23.3 m 56.9 m 135.8 m 338.3 m 835.7 m 2.1 5.1 12.5 30.7 #N/A #N/A	

