



Part Number: T22-2

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	5.66 mm 6.05 mm	0.223 in 0.238 in
ID	(nom. - bare core) (min. - after coating)	2.46 mm 2.08 mm	0.097 in 0.082 in
Ht	(nom. - bare core) (max. - after coating)	3.63 mm 4.14 mm	0.143 in 0.163 in
Mass	(approximate)	0.34 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section L_e - Eff. Mag. Path Length V_e - Eff. Core Volume WA - Min. Eff. Window Area sa - Surface Area mlt - mean length per turn	0.0520 cm ² 1.28 cm 0.0670 cm ³ 0.0341 cm ² 1.60 cm ² 1.33 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A A_L tolerance	10 5.5 nH/N ² N=50, #36 AWG 1 MHz 1.0 V ±5%	
Core Loss & Q	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 Q frequency Q min on HP4342A	N=50, #36 AWG 5 MHz 118	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.00E-02$, $b=1.83E-07$, $c=1.46$, $d=0.00$ H_{DC} Percent Initial Perm(nom.) Percent Initial Perm(min.)	200 Oe 95.9% 94.8%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Red/Clear Epoxy Paint 500 Vrms, 60Hz 3 mA, 5 s 40,000 Pcs/Box	

Winding Table	Wire Size	AWG	26	28	30	32	34	36	38	40	42	44	#N/A
		mm	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	#N/A
	Single Layer	Turns	10	13	17	21	27	35	44	55	69	87	#N/A
		Rdc(Ω)	17.8 m	36.8 m	76.4 m	150.2 m	307.1 m	633.1 m	1.3	2.5	5.0	10.1	#N/A
Full Winding	Turns	9	14	22	34	52	81	125	193	299	463	#N/A	
	Rdc(Ω)	16.0 m	39.6 m	98.9 m	243.2 m	591.5 m	1.5	3.6	8.8	21.8	53.6	#N/A	

