



Part Number: T22-6

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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	0.0520 cm ²	
	L _e - Eff. Mag. Path Length	1.28 cm	
	V _e - Eff. Core Volume	0.0670 cm ³	
	WA - Min. Eff. Window Area	0.0341 cm ²	
	sa - Surface Area	1.60 cm ²	
	mlt - mean length per turn	1.33 cm	
Inductance	μ _i (reference)	8.5	
	A _L value (nominal)	4.5 nH/N ²	
	Test Winding	N=50, #36 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	1.0 V	
	A _L tolerance	±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=8.90E-16	
	Q test winding	N=20, #30 AWG	
	Q frequency	11.5 MHz	
	Q min on HP4342A	156	
DC Saturation	%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%	
	Percent Initial Perm(min.)	97.4%	
Coating/Pkg	Coating Type:	Yellow/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	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	

