



Part Number: T225-30

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OD	(nom. - bare core) (max. - after coating)	57.15 mm 57.79 mm	2.250 in 2.275 in									
ID	(nom. - bare core) (min. - after coating)	35.69 mm 35.05 mm	1.405 in 1.380 in									
Ht	(nom. - bare core) (max. - after coating)	13.97 mm 14.73 mm	0.550 in 0.580 in									
Mass	(approximate)	120 grams										
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.42 cm ²										
	L _e - Eff. Mag. Path Length	14.6 cm										
	V _e - Eff. Core Volume	20.7 cm ³										
	WA - Min. Eff. Window Area	9.65 cm ²										
	sa - Surface Area	108 cm ²										
	mlt - mean length per turn	6.97 cm										
Inductance	μ _i (reference)	22										
	A _L value (nominal)	28 nH/N ²										
	Test Winding	N=100, #22 AWG										
	Frequency	10 kHz										
	Voltage on Agilent 4284A	0.63 V										
Core Loss	A _L tolerance	±10%										
	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=3.30E+08, b=2.00E+07, c=2.00E+06, d=1.10E-13										
	B _{pk}	140 G										
	frequency	100 kHz										
DC Saturation	Core Loss (nominal)	129 mW/cm ³										
	Core Loss (maximum)	149 mW/cm ³										
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$										
	where H expressed in oersteds, and:	a=1.00E-02, b=4.10E-06, c=1.34, d=0.00										
Coating/Pkg	H _{DC}	200 Oe										
	Percent Initial Perm(nom.)	66.7%										
	Percent Initial Perm(min.)	61.1%										
	Coating Type:	Green/Gray Epoxy Paint										
Winding Table	Voltage Breakdown (min.)	500 Vrms, 60Hz										
	Limit	3 mA, 5 s										
	Package Quantity	120 Pcs/Box										
	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26
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	27	34	43	54	68	86	107	134	168	209	261
Full Winding	Rdc(Ω)	3.9 m	7.8 m	15.6 m	31.1 m	62.4 m	125.4 m	248.2 m	494.4 m	985.7 m	2.0	3.9
	Turns	51	78	121	187	290	449	694	1,075	1,663	2,574	3,985
Full Winding	Rdc(Ω)	7.3 m	17.8 m	43.9 m	107.8 m	266.0 m	654.9 m	1.6	4.0	9.8	24.0	59.1

