



Part Number: T225-6

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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)	100 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	
Inductance	μ _i (reference)	8.5	
	A _L value (nominal)	10.4 nH/N ²	
	Test Winding	N=30, #18 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	1.0 V	
Core Loss & Q	A _L tolerance	±5%	
	Core Loss(mW/cm ³)=	$\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$	
	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=30, #18 AWG	
	Q frequency	3 MHz	
DC Saturation	Q min on HP4342A	386	
	%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%	
Coating/Pkg	Percent Initial Perm(min.)	97.4%	
	Coating Type:	Yellow/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	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	

