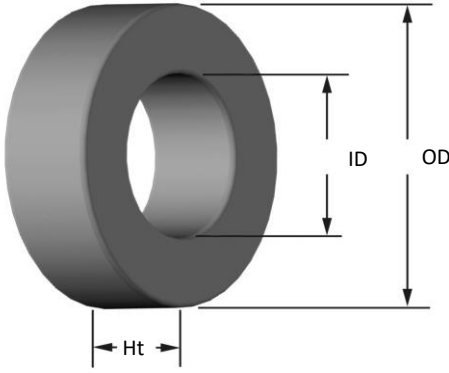




Part Number: **T130-5**
Revision 2024-Jul-8 - Generated 2024-Jul-8



OD	(nom. - bare core)	33.02 mm	1.300 in										
	(max. - including coating, if any)	33.53 mm	1.320 in										
ID	(nom. - bare core)	19.81 mm	0.780 in										
	(min. - including coating, if any)	19.30 mm	0.760 in										
HT	(nom. - bare core)	11.10 mm	0.437 in										
	(max. - including coating, if any)	11.73 mm	0.462 in										
Mass	(approximate)	29 grams											
Magnetic Dimensions	Ae - Eff. Mag. Cross Section	0.698 cm ²											
	Le - Eff. Mag. Path Length	8.28 cm											
	Ve - Eff. Core Volume	5.78 cm ³											
	WA - Min. Eff. Window Area	2.93 cm ²											
	sa - Surface Area	39.8 cm ²											
	mlt - mean length per turn	4.73 cm											
Inductance	μi (reference)	5											
	AL value (nominal)	5.5 nH/N ²											
	Test Winding	N=100, #24 AWG											
	Test Frequency	1 MHz											
	Voltage on Agilent 4284A	1.0 V											
	AL tolerance	±5%											
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=4.00E+09, b=3.00E+08, c=2.70E+06, d=8.00E-15												
	Bpk	140 G											
	frequency	100 kHz											
	Core Loss (nominal)	19 mW/cm ³											
Core Loss (maximum)	22 mW/cm ³												
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.00E-02, b=1.34E-08, c=1.55, d=0.00												
	Hdc	200 Oe											
	Percent Initial Perm (nom.)	99.5%											
Percent Initial Perm (min.)	99.4%												
Coating/Pkg	Coating Type:	Green/Clear Epoxy Paint											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
	Limit	3 mA, 5 s											
	Package Quantity	500 Pcs/Box											
Winding Table	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer	Turns	14	18	22	29	36	46	58	73	91	114	142
		Rdc(Ω)	1.4 m	2.8 m	5.4 m	11.3 m	22.4 m	45.5 m	91.3 m	182.7 m	362.2 m	721.7 m	1.4
	Full Winding	Turns	15	24	37	57	88	136	211	326	504	781	1,208
	Rdc(Ω)	1.5 m	3.7 m	9.1 m	22.3 m	54.8 m	134.6 m	332.1 m	815.9 m	2.0	4.9	12.2	

