



Part Number: **T150-40**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	38.35 mm 38.99 mm	1.510 in 1.535 in
ID	(nom. - bare core) (min. - after coating)	21.46 mm 20.83 mm	0.845 in 0.820 in
Ht	(nom. - bare core) (max. - after coating)	11.10 mm 11.86 mm	0.437 in 0.467 in
Mass	(approximate)	57 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.887 cm ²	
	L _e - Eff. Mag. Path Length	9.38 cm	
	V _e - Eff. Core Volume	8.31 cm ³	
	WA - Min. Eff. Window Area	3.41 cm ²	
	sa - Surface Area	50.5 cm ²	
	mlt - mean length per turn	5.23 cm	
Inductance	μ _i (reference)	60	
	A _L value (nominal)	78 nH/N ²	
	Test Winding	N=100, #24 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.39 V	
A _L tolerance	±10%		
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.10E+09, b=3.30E+07, c=2.50E+06, d=3.10E-13		
	B _{pk}	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	127 mW/cm ³	
Core Loss (maximum)	146 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=8.93E-06, c=1.61, d=0.00		
	H _{DC}	50 Oe	
	Percent Initial Perm(nom.)	67.0%	
Percent Initial Perm(min.)	60.2%		
Coating/Pkg	Coating Type:	Green/Yellow Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	350 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	15	19	24	31	39	50	63	79	98	123	154
		Rdc(Ω)	1.6 m	3.2 m	6.5 m	13.4 m	26.8 m	54.7 m	109.6 m	218.6 m	431.3 m	860.9 m	1.7
Full Winding	Turns	18	28	43	66	102	158	245	379	587	909	1,407	
	Rdc(Ω)	1.9 m	4.8 m	11.7 m	28.5 m	70.2 m	172.9 m	426.3 m	1.0	2.6	6.4	15.7	

