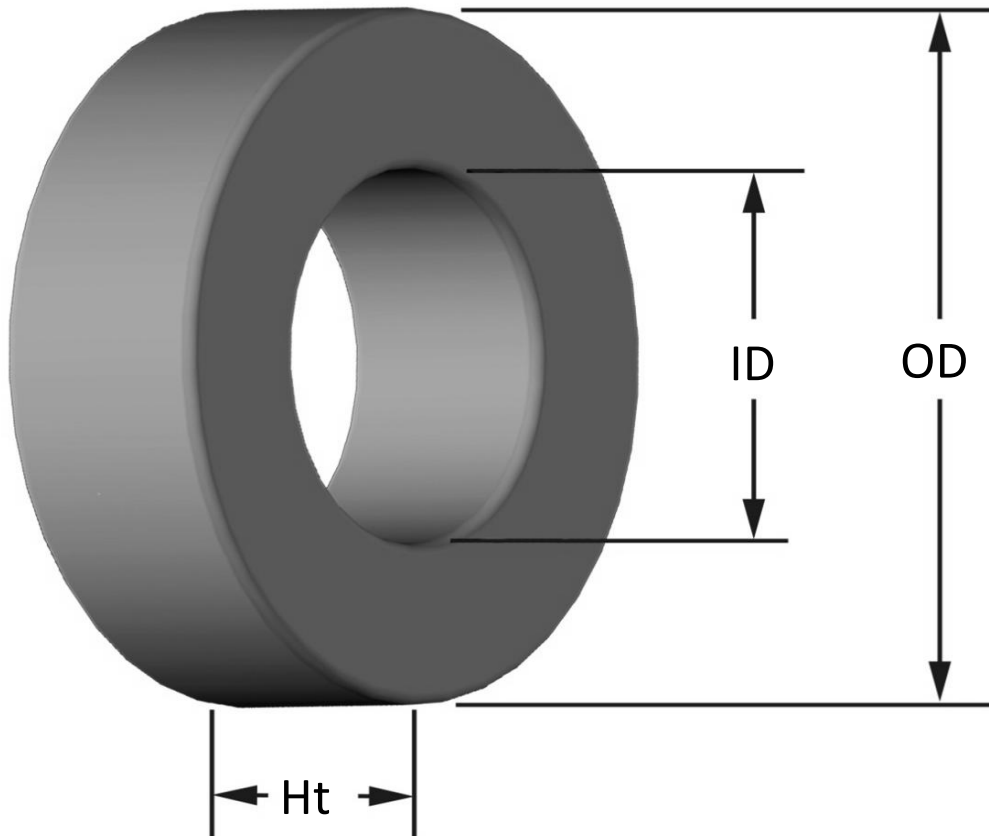




Part Number:

T150-18

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core)	38.35 mm	1.510 in
	(max. - after coating)	38.99 mm	1.535 in
ID	(nom. - bare core)	21.46 mm	0.845 in
	(min. - after coating)	20.83 mm	0.820 in
Ht	(nom. - bare core)	11.10 mm	0.437 in
	(max. - after coating)	11.86 mm	0.467 in
Mass	(approximate)	55 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)	55	
	A _L value (nominal)	65 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	$\text{Core Loss(mW/cm}^3\text{)}= \frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=8.00E+08$, $b=1.70E+08$, $c=9.00E+05$, $d=3.10E-14$		
	Bpk	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	46 mW/cm ³	
	Core Loss (maximum)	53 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.00E-02$, $b=4.72E-06$, $c=1.65$, $d=0.00$		
	H _{DC}	100 Oe	
	Percent Initial Perm(nom.)	51.4%	
	Percent Initial Perm(min.)	43.9%	
Coating/Pkg	Coating Type:	Green/Red 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

