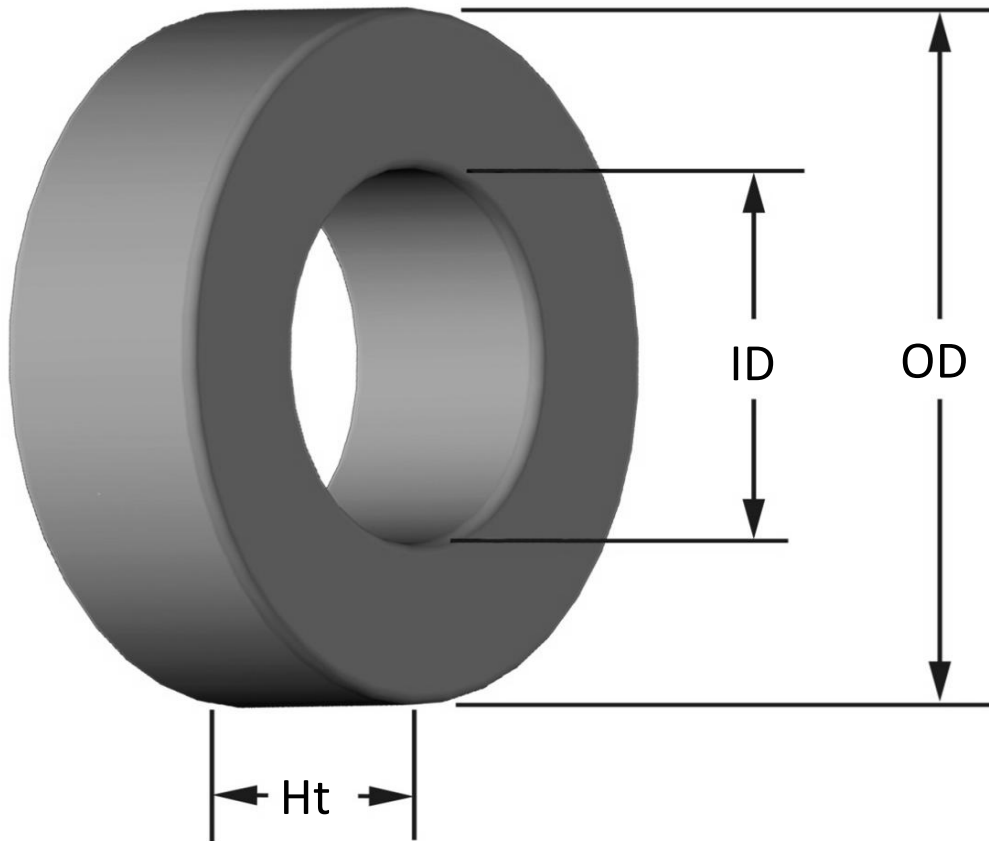




Part Number: **T250-19**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	63.50 mm 64.26 mm	2.500 in 2.530 in
ID	(nom. - bare core) (min. - after coating)	31.75 mm 30.99 mm	1.250 in 1.220 in
Ht	(nom. - bare core) (max. - after coating)	25.40 mm 26.16 mm	1.000 in 1.030 in
Mass	(approximate)	390 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	3.84 cm ²	
	L _e - Eff. Mag. Path Length	15.0 cm	
	V _e - Eff. Core Volume	57.4 cm ³	
	WA - Min. Eff. Window Area	7.54 cm ²	
	sa - Surface Area	150 cm ²	
	mlt - mean length per turn	10.1 cm	
Inductance	μ _i (reference)	55	
	A _L value (nominal)	177 nH/N ²	
	Test Winding	N=100, #24 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	1.7 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=1.90E+09, b=8.40E+07, c=2.10E+06, d=5.00E-14		
	B _{pk}	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	54 mW/cm ³	
Core Loss (maximum)	62 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=3.60E-06, c=1.69, d=0.00		
	H _{DC}	100 Oe	
	Percent Initial Perm(nom.)	53.8%	
Percent Initial Perm(min.)	46.2%		
Coating/Pkg	Coating Type:	Red/Green Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	45 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	23	30	38	48	60	75	95	118	148	185	230
		Rdc(Ω)	4.8 m	9.9 m	20.0 m	40.1 m	79.8 m	158.6 m	319.5 m	631.2 m	1.3	2.5	4.9
Full Winding	Turns	39	61	95	146	227	351	543	840	1,300	2,012	3,114	
	Rdc(Ω)	8.1 m	20.2 m	49.9 m	122.1 m	301.9 m	742.3 m	1.8	4.5	11.1	27.2	67.0	

