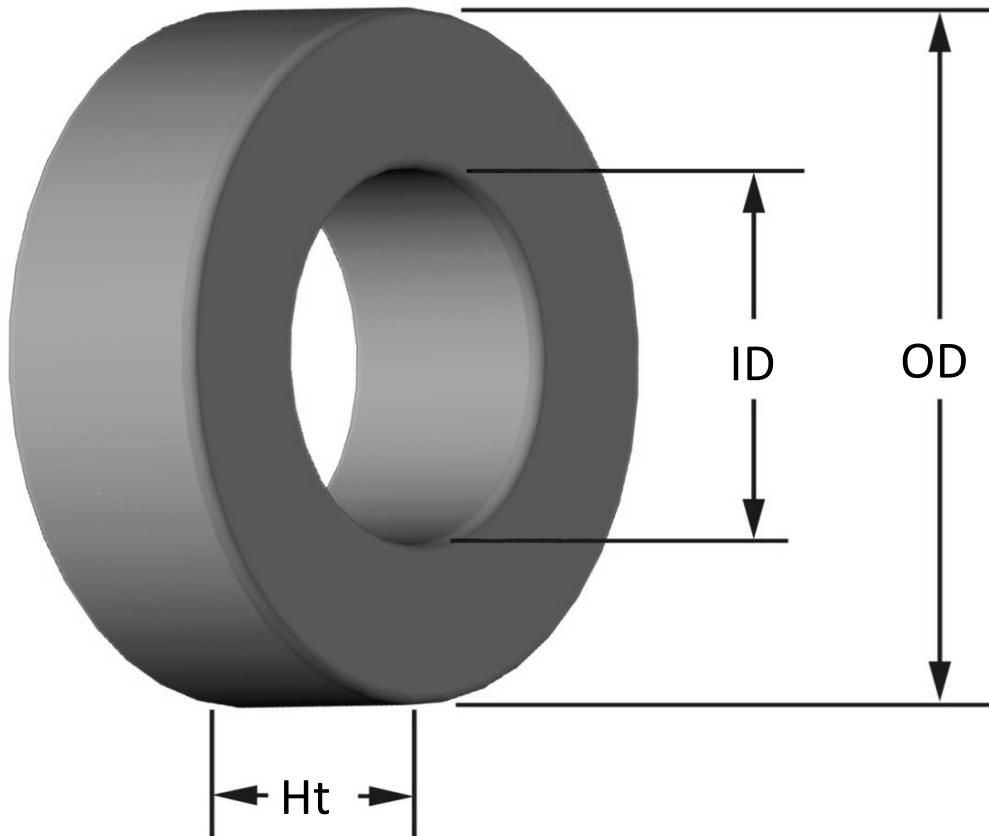




Part Number:

T80-14D

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core)	20.19 mm	0.795 in
	(max. - after coating)	20.70 mm	0.815 in
ID	(nom. - bare core)	12.57 mm	0.495 in
	(min. - after coating)	12.07 mm	0.475 in
Ht	(nom. - bare core)	12.70 mm	0.500 in
	(max. - after coating)	13.34 mm	0.525 in
Mass	(approximate)	12 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.453 cm ²	
	L _e - Eff. Mag. Path Length	5.14 cm	
	V _e - Eff. Core Volume	2.33 cm ³	
	WA - Min. Eff. Window Area	1.14 cm ²	
	sa - Surface Area	19.7 cm ²	
	mlt - mean length per turn	4.13 cm	
Inductance	μ _i (reference)	14	
	A _L value (nominal)	13.3 nH/N ²	
	Test Winding	N=100, #28 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.20 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: $a=4.00E+09$, $b=3.00E+08$, $c=2.70E+06$, $d=1.92E-15$		
	Bpk	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	18 mW/cm ³	
	Core Loss (maximum)	21 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.00E-02$, $b=3.90E-07$, $c=1.46$, $d=0.00$		
	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	91.8%	
	Percent Initial Perm(min.)	89.6%	
Coating/Pkg	Coating Type:	Black/Red Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	1,000 Pcs/Box	

Winding Table	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	10	13	17	22	28	35	44	56	70	88	110
		Rdc(Ω)	1.4 m	2.8 m	5.8 m	12.0 m	24.2 m	48.1 m	96.2 m	194.8 m	387.3 m	774.3 m	1.5
	Full Winding	Turns	9	14	22	34	53	82	127	197	305	472	731
		Rdc(Ω)	1.2 m	3.0 m	7.5 m	18.5 m	45.8 m	112.8 m	277.8 m	685.3 m	1.7	4.2	10.2

