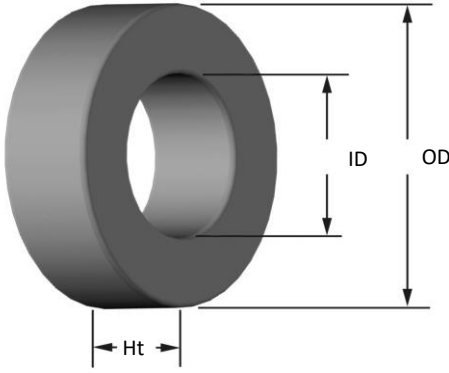




Part Number: **T80-5**
Revision 2024-Jul-8 - Generated 2024-Jul-8



OD	(nom. - bare core)	20.19 mm	0.795 in										
	(max. - including coating, if any)	20.70 mm	0.815 in										
ID	(nom. - bare core)	12.57 mm	0.495 in										
	(min. - including coating, if any)	12.07 mm	0.475 in										
HT	(nom. - bare core)	6.35 mm	0.250 in										
	(max. - including coating, if any)	6.99 mm	0.275 in										
Mass	(approximate)	6.0 grams											
Magnetic Dimensions	Ae - Eff. Mag. Cross Section	0.231 cm ²											
	Le - Eff. Mag. Path Length	5.14 cm											
	Ve - Eff. Core Volume	1.19 cm ³											
	WA - Min. Eff. Window Area	1.14 cm ²											
	sa - Surface Area	15.0 cm ²											
	mlt - mean length per turn	2.86 cm											
	μ (reference)	5											
Inductance	AL value (nominal)	2.8 nH/N ²											
	Test Winding	N=100, #28 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: $a=4.00E+09$, $b=3.00E+08$, $c=2.70E+06$, $d=8.00E-15$												
	B_{pk}	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	2,000 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)	0.9 m	1.9 m	4.0 m	8.3 m	16.8 m	33.3 m	66.6 m	134.8 m	267.9 m	535.7 m	1.1
	Full Winding	Turns	9	14	22	34	53	82	127	197	305	472	731
	Rdc(Ω)	0.8 m	2.1 m	5.2 m	12.8 m	31.7 m	78.0 m	192.2 m	474.1 m	1.2	2.9	7.1	

