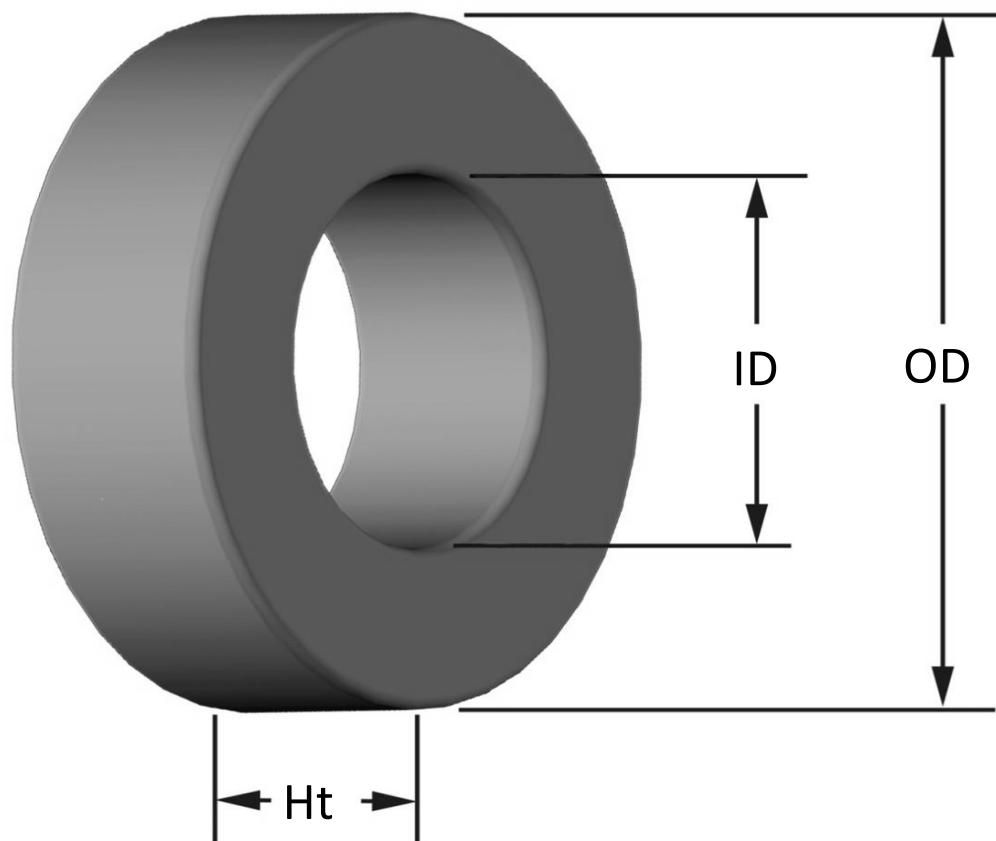


MICROMETALSTM
POWDER CORE SOLUTIONS

Part Number:

T80-0

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) 20.19 mm (max. - after coating) 20.70 mm	0.795 in 0.815 in
ID	(nom. - bare core) 12.57 mm (min. - after coating) 12.07 mm	0.495 in 0.475 in
Ht	(nom. - bare core) 6.35 mm (max. - after coating) 6.99 mm	0.250 in 0.275 in
Mass	(approximate)	2.6 grams
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.231 cm ²
	L _e - Eff. Mag. Path Length	5.14 cm
	V _e - Eff. Core Volume	1.19 cm ³
	WA - Min. Eff. Window Area	1.14 cm ²
	sa - Surface Area	15.0 cm ²
Inductance	mlt - mean length per turn	2.86 cm
	μ_i (reference)	1
	A _L value (nominal)	0.85 nH/N ²
	Test Winding	N/A
	Frequency	N/A
Core Loss	Voltage on Agilent 4284A	N/A
	A _L tolerance	Ref Only
	Core Loss(mW/cm ³)= $\frac{f}{a + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.00E+99$, $b=1.00E+99$, $c=1.00E+99$, $d=0.00E+00$	
	B _{pk} 140 G frequency 100 kHz Core Loss (nominal) 0 mW/cm ³ Core Loss (maximum) 0 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and: $a=1.00E-02$, $b=0.00E+00$, $c=0.00$, $d=0.00$	
	H _{DC} 200 Oe Percent Initial Perm(nom.) 100.0% Percent Initial Perm(min.) 100.0%	
	Coating Type: Tan/Tan 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 66.7 m 135.0 m 268.3 m 536.4 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 31.8 m 78.1 m 192.5 m 474.8 m 1.2 2.9 7.1

