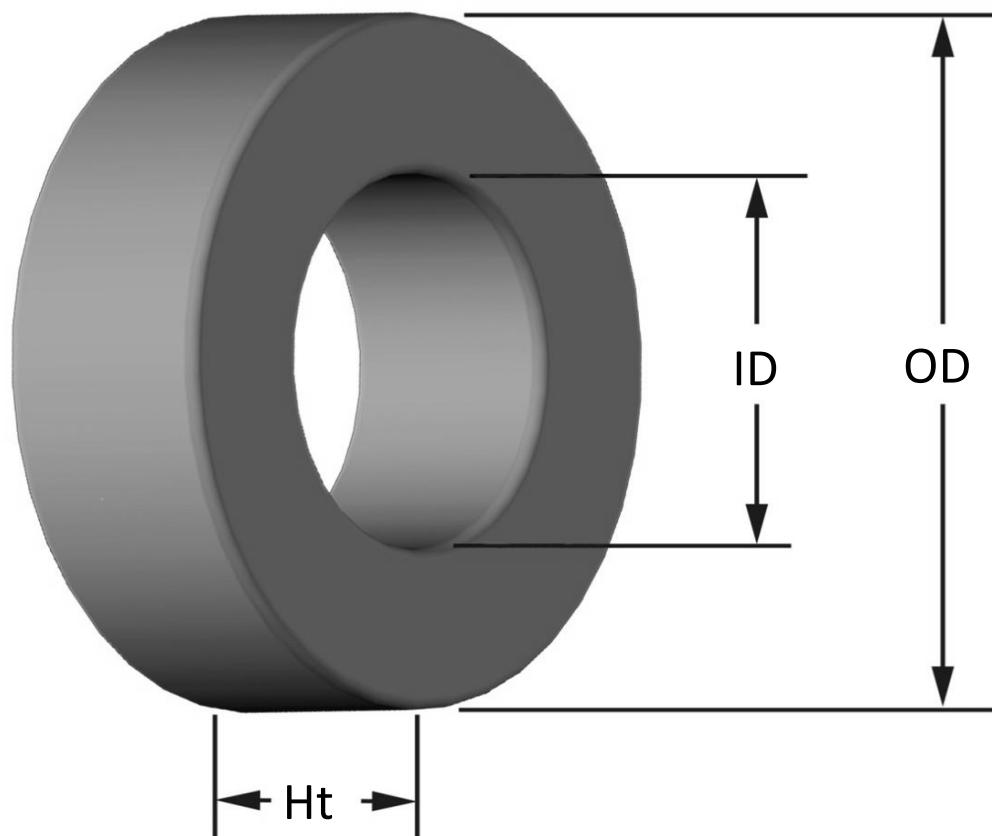


MICROMETALSTM
POWDER CORE SOLUTIONS

Part Number:

T68-0

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) 17.53 mm (max. - after coating) 18.03 mm	0.690 in 0.710 in											
ID	(nom. - bare core) 9.40 mm (min. - after coating) 8.89 mm	0.370 in 0.350 in											
Ht	(nom. - bare core) 4.83 mm (max. - after coating) 5.33 mm	0.190 in 0.210 in											
Mass	(approximate)	1.7 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.179 cm ²											
	L _e - Eff. Mag. Path Length	4.23 cm											
	V _e - Eff. Core Volume	0.759 cm ³											
	WA - Min. Eff. Window Area	0.621 cm ²											
	sa - Surface Area mlt - mean length per turn	10.6 cm ² 2.43 cm											
Inductance	μ_i (reference)	1											
	A _L value (nominal)	0.75 nH/N ²											
	Test Winding	N/A											
	Frequency	N/A											
	Voltage on Agilent 4284A	N/A											
Core Loss	μ_i 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											
DC Saturation	Core Loss (maximum)	0 mW/cm ³											
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	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/Pkg	Coating Type:	Tan/Tan Epoxy Paint											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
	Limit	3 mA, 5 s											
	Package Quantity	3,000 Pcs/Box											
Winding Table	Wire Size	AWG	14	16	18	20	22	24	26	28	30	32	34
		mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160
	Single Layer	Turns	12	15	20	25	32	40	51	64	80	101	126
	Full Winding	Rdc(Ω)	2.4 m	4.8 m	10.1 m	20.2 m	41.1 m	81.7 m	165.6 m	330.4 m	656.9 m	1.3	2.6
		Turns	12	19	29	45	69	107	166	256	397	614	950
	Rdc(Ω)	2.4 m	6.1 m	14.7 m	36.3 m	88.6 m	218.4 m	538.9 m	1.3	3.3	8.0	19.7	

