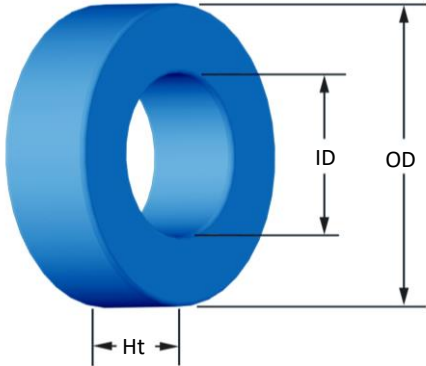




Part Number: MS-092075-2

Revision 2021-Sep-15 - Generated 2021-Sep-15



(If coated, Max./Min. includes coating)

OD	(nom. - bare core)	23.57 mm	0.928 in
	(max.)	24.28 mm	0.956 in
ID	(nom. - bare core)	14.40 mm	0.567 in
	(min.)	13.77 mm	0.542 in
HT	(nom. - bare core)	8.89 mm	0.350 in
	(max.)	9.70 mm	0.382 in
Mass	(approximate)	13 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.388 cm ²	
	L_e - Eff. Mag. Path Length	5.88 cm	
	V_e - Eff. Core Volume	2.28 cm ³	
	WA - Min. Eff. Window Area	1.49 cm ²	
	sa - Surface Area	21.8 cm ²	
	mlt - mean length per turn	3.68 cm	
	μ_i (reference)	75	
Inductance	A_L value (nominal)	63 nH/N ²	
	Test Winding	N=80, #26 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.14 V	
	AL tolerance	±8%	
Core Loss	Core Loss(mW/cm ³): $\frac{f}{Bpk^3} + \frac{f}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}} + d \cdot Bpk^2 \cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=7.890E+09$, $b=7.111E+08$, $c=8.980E+06$, $d=2.846E-14$		
	B_{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	323 mW/cm ³	
Core Loss (maximum)	372 mW/cm ³		
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.000E-02$, $b=3.414E-06$, $c=1.841$, $d=0.000$		
	H_{DC}	80 Oe	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	1,080 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	12	15	20	25	32	40	51	64	80	101	126
		Rdc(Ω)	1.4 m	2.9 m	6.1 m	12.1 m	24.6 m	49.0 m	99.3 m	198.2 m	394.0 m	791.0 m	1.6
Full Winding	Turns	12	19	29	45	69	107	166	257	397	615	952	
	Rdc(Ω)	1.4 m	3.6 m	8.8 m	21.8 m	53.1 m	131.0 m	323.2 m	795.8 m	2.0	4.8	11.9	

