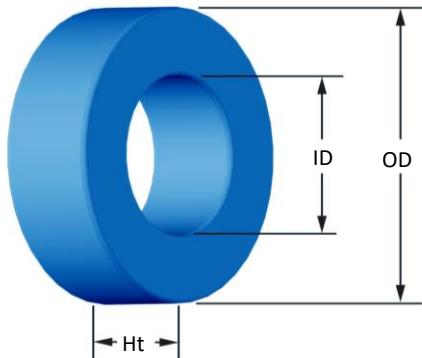




Part Number:

MS-028075-8

Revision 2021-Dec-01 - Generated 2021-Dec-01



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

OD	(nom. - bare core) (max.)	7.04 mm 7.67 mm	0.277 in 0.302 in
ID	(nom. - bare core) (min.)	3.96 mm 3.45 mm	0.156 in 0.136 in
HT	(nom. - bare core) (max.)	5.08 mm 5.72 mm	0.200 in 0.225 in
Mass	(approximate)	0.74 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0750 cm ²	
	L _e - Eff. Mag. Path Length	1.68 cm	
	V _e - Eff. Core Volume	0.126 cm ³	
	WA - Min. Eff. Window Area	0.0935 cm ²	
	SA - Surface Area	2.80 cm ²	
Inductance	μ _i (reference)	75	
	A _L value (nominal)	42 nH/N ²	
	Test Winding	N=40, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.013 V	
Core Loss	AL tolerance	±12%	
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=7.890E+09, b=7.111E+08, c=8.980E+06, d=2.846E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
DC Saturation	Core Loss (nominal)	323 mW/cm ³	
	Core Loss (maximum)	372 mW/cm ³	
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	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	Percent Initial Perm(nom.)	47.9%	
	Percent Initial Perm(min.)	39.6%	
	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	12,600 Pcs/Box	

Wire Size	AWG	22	24	26	28	30	32	34	36	38	40	42
	mm	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063
Single Layer	Turns	11	14	18	23	29	37	47	59	75	93	117
	Rdc(Ω)	10.1 m	20.5 m	41.9 m	85.1 m	170.7 m	346.3 m	699.6 m	1.4	2.8	5.6	11.1
Full Winding	Turns	10	16	25	39	60	92	143	222	343	531	821
	Rdc(Ω)	9.2 m	23.4 m	58.2 m	144.3 m	353.1 m	861.1 m	2.1	5.3	12.9	31.8	78.2

