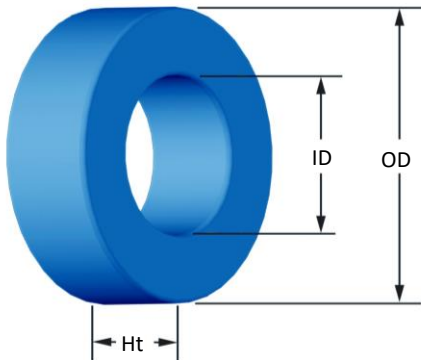




Part Number: **MS-226125-2**

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



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

OD	(nom. - bare core) (max.)	57.15 mm 58.04 mm	2.250 in 2.285 in
ID	(nom. - bare core) (min.)	26.39 mm 25.58 mm	1.039 in 1.007 in
HT	(nom. - bare core) (max.)	15.24 mm 16.13 mm	0.600 in 0.635 in
Mass	(approximate)	170 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	2.29 cm ²	
	L _e - Eff. Mag. Path Length	12.506 cm	
	V _e - Eff. Core Volume	28.6 cm ³	
	WA - Min. Eff. Window Area	5.14 cm ²	
	sa - Surface Area	105 cm ²	
Inductance	μ _i (reference)	125	
	A _L value (nominal)	287 nH/N ²	
	Test Winding	N=60, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.61 V	
	AL tolerance	±8%	
	Core Loss		$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$ <p>where B_{pk} expressed in gauss, f expressed in hertz, and: a=1.394E+10, b=1.034E+09, c=1.244E+07, d=4.007E-14</p> <p>B_{pk} 1000 G frequency 50 kHz Core Loss (nominal) 276 mW/cm³ Core Loss (maximum) 318 mW/cm³</p>
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ <p>where H expressed in oersteds, and: a=1.000E-02, b=7.884E-06, c=1.883, d=0.000</p>		
	H _{DC}	40 Oe	
	Percent Initial Perm(nom.)	55.0%	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	80 Pcs/Box	

Winding Table	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer	Turns	19	24	31	39	49	62	78	97	122	152	190
		Rdc(Ω)	3.0 m	6.1 m	12.5 m	25.0 m	50.0 m	100.5 m	201.2 m	397.8 m	795.8 m	1.6	3.1
Full Winding	Turns	27	42	64	100	154	239	370	572	886	1,371	2,122	
	Rdc(Ω)	4.3 m	10.6 m	25.8 m	64.1 m	157.0 m	387.5 m	954.2 m	2.3	5.8	14.2	35.0	

