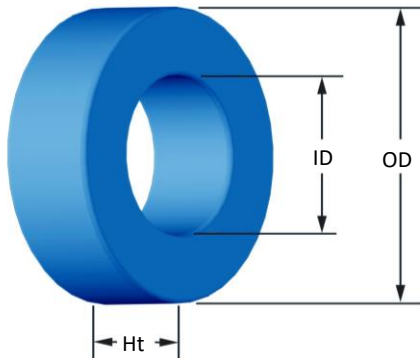




Part Number:

MS-775014-2

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



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

OD	(nom. - bare core) (max.)	196.85 mm 198.37 mm	7.750 in 7.810 in
ID	(nom. - bare core) (min.)	146.05 mm 144.53 mm	5.750 in 5.690 in
HT	(nom. - bare core) (max.)	25.40 mm 26.92 mm	1.000 in 1.060 in
Mass	(approximate)	1,650 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	6.26 cm ²	
	L _e - Eff. Mag. Path Length	53.86 cm	
	V _e - Eff. Core Volume	337 cm ³	
	WA - Min. Eff. Window Area	164.1 cm ²	
	sa - Surface Area	1,144 cm ²	
Inductance	mlt - mean length per turn	18.0 cm	
	μ _i (reference)	14	
	A _L value (nominal)	20.5 nH/N ²	
	Test Winding	N=100, #18 AWG	
	Frequency	10 kHz	
Core Loss	Voltage on Agilent 4284A	2.8 V	
	AL tolerance	±8%	
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=2.035E+08, c=3.969E+06, d=3.473E-14		
	B _{pk}	300 G	
DC Saturation	frequency	100 kHz	
	Core Loss (nominal)	168 mW/cm ³	
	Core Loss (maximum)	193 mW/cm ³	
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=1.065E-06, c=1.553, d=0.000		
Coating/Pkg	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	71.5%	
	Percent Initial Perm(min.)	65.4%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	3 Pcs/Box	
	Wire Size	AWG	8
		mm	3.150
	Single Layer	Turns	120
		Rdc(Ω)	44.4 m
	Full Winding	Turns	859
		Rdc(Ω)	317.8 m

