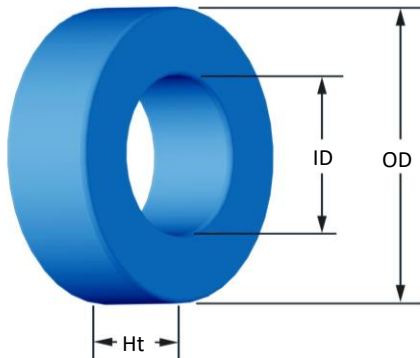




Part Number:

MS-775026-2

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)	1,670 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)	26											
	A _L value (nominal)	38 nH/N ²											
	Test Winding	N=100, #18 AWG											
	Frequency	10 kHz											
Core Loss	Voltage on Agilent 4284A	2.8 V											
	AL tolerance	±8%											
	Core Loss(mW/cm ³):	$\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$											
	where B _{pk} expressed in gauss, f expressed in hertz, and:	a=1.000E+06, b=3.991E+08, c=2.565E+06, d=3.320E-14											
	B _{pk}	500 G											
DC Saturation	frequency	100 kHz											
	Core Loss (nominal)	379 mW/cm ³											
	Core Loss (maximum)	436 mW/cm ³											
	%μ _i	$\frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and:	a=1.000E-02, b=4.158E-06, c=1.508, d=0.000											
Coating/Pkg	H _{DC}	200 Oe											
	Percent Initial Perm.(nom.)	44.9%											
	Percent Initial Perm.(min.)	38.2%											
	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	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 Turns	120	150	187	233	291	362	451	562	700	872	1,085	
Layer R _{dc} (Ω)	44.4 m	88.3 m	175.0 m	346.8 m	688.9 m	1.4	2.7	5.4	10.6	21.0	41.6		
Full Turns	859	1,329	2,057	3,184	4,928	7,627	11,804	18,270	28,277	43,766	67,739		
Winding R _{dc} (Ω)	317.8 m	782.1 m	1.9	4.7	11.7	28.7	70.7	174.0	428.2	1.1 k	2.6 k		

