

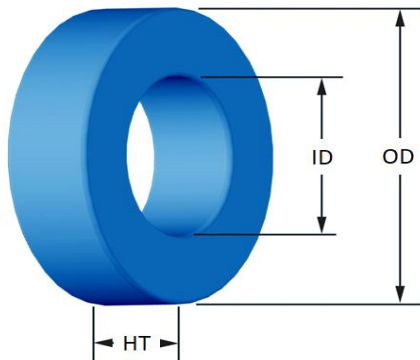


Part Number:

MS-350026-2

Revision:

2023-Dec-18



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

		mm	in
OD	(nom. - bare core)	88.85	3.498
	(max.)	90.00	3.543
ID	(nom. - bare core)	66.01	2.599
	(min.)	64.74	2.549
HT	(nom. - bare core)	15.93	0.627
	(max.)	17.20	0.677
Mass	(approximate)	220	grams
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	1.83	cm ²
	L_e - Eff. Mag. Path Length	24	cm
	V_e - Eff. Core Volume	43.9	cm ³
	W_A - Min. Eff. Window Area	32.9	cm ²
	s_a - Surface Area	251	cm ²
	mlt - mean length per turn	9.20	cm
Inductance	μ_i (reference)	26	
	A_L value (nominal)	24	nH/N ²
	Test Winding	100 Turns	AWG# 18
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.81	V
	AL tolerance	±8%	
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.000E+06$, $b=4.969E+08$, $c=3.993E+06$, $d=2.867E-14$		
	B_{pk}	500	G
	frequency	100 k	Hz
	Core Loss (nominal)	295	mW/cm ³
	Core Loss (maximum)	339	mW/cm ³
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.000E-02$, $b=2.061E-07$, $c=1.995$, $d=0.000$		
	H_{dc}	200	Oe
	Percent Initial Perm(nom.)	55.4	%
	Percent Initial Perm(min.)	46.3	%
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	25 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	52	65	82	103	129	161	201	250	312	389	485
	Full Winding	Turns	172	267	413	639	989	1,530	2,369	3,666	5,674	8,782	13,592
		Rdc(Ω)	32.5 m	80.4 m	197.7 m	486.4 m	1.2	2.9	7.3	17.9	43.9	108.2	266.3

