

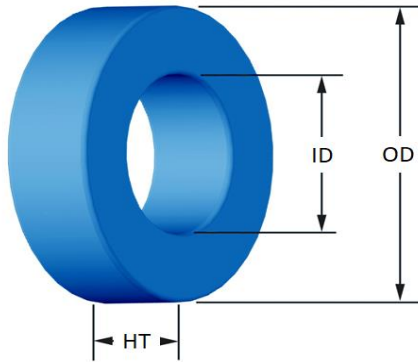


Part Number:

MS-107026-2

Revision:

2023-Dec-06



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

(if coated, Max./Min. includes coating)		mm	in			
OD	(nom. - bare core)	26.92	1.060			
	(max.)	27.69	1.090			
ID	(nom. - bare core)	14.73	0.580			
	(min.)	14.10	0.555			
HT	(nom. - bare core)	8.64	0.340			
	(max.)	9.45	0.372			
Mass	(approximate)	16	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.497	cm ²			
	L _e - Eff. Mag. Path Length	6.35	cm			
	V _e - Eff. Core Volume	3.16	cm ³			
	W _A - Min. Eff. Window Area	1.56	cm ²			
	s _a - Surface Area	26.3	cm ²			
	mlt - mean length per turn	3.95	cm			
Inductance	μ _i (reference)	26				
	A _L value (nominal)	25.5	nH/N ²			
	Test Winding	80 Turns	AWG# 26			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	0.18	V			
	AL tolerance	±8%				
Core Loss	$\text{Core Loss(mW/cm}^3\text{)}=\frac{a}{Bpk^3}+\frac{b}{Bpk^{2.3}}+\frac{c}{Bpk^{1.65}}+d\cdot Bpk^2\cdot f^2$					
	where <i>B_{pk}</i> expressed in gauss, <i>f</i> expressed in hertz, and: <i>a</i> =1.000E+06, <i>b</i> =4.969E+08, <i>c</i> =3.993E+06, <i>d</i> =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: <i>a</i> =1.000E-02, <i>b</i> =2.061E-07, <i>c</i> =1.995, <i>d</i> =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	630 Pcs/Box				
Winding Table	Wire Size	AWG	10	12	14	
		mm	2.500	2.000	1.600	
	Single Layer	Turns	12	16	20	
		Rdc(Ω)	1.6 m	3.3 m	6.5 m	
	Full Winding	Turns	13	20	30	
		Rdc(Ω)	1.7 m	4.1 m	9.8 m	

