

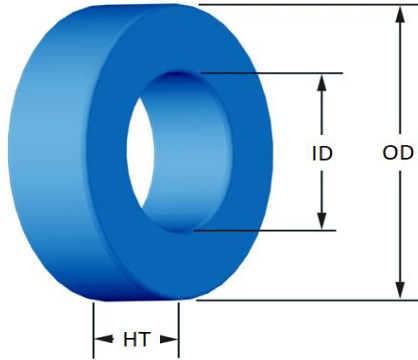


Part Number:

SM-015060-8

Revision:

2024-Dec-19



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

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OD	(nom. - bare core)	3.94	0.155			
	(max.)	4.14	0.163			
ID	(nom. - bare core)	2.21	0.087			
	(min.)	2.01	0.079			
HT	(nom. - bare core)	2.54	0.100			
	(max.)	2.74	0.108			
Mass	(approximate)	0.13	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0211	cm ²			
	L _e - Eff. Mag. Path Length	0.942	cm			
	V _e - Eff. Core Volume	0.0197	cm ³			
	W _A - Min. Eff. Window Area	0.0317	cm ²			
	s _a - Surface Area	0.776	cm ²			
	mlt - mean length per turn	0.862	cm			
Inductance	μ _i (reference)	60				
	A _L value (nominal)	17	nH/N ²			
	Test Winding	30 Turns	AWG# 32			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	0.003	V			
	AL tolerance	±15%				
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 <i>B_{pk}</i> expressed in gauss, <i>f</i> expressed in hertz, and: <i>a</i> =1.000E+06, <i>b</i> =9.109E+08, <i>c</i> =1.221E+07, <i>d</i> =1.096E-14					
	B _{pk}	1000	G			
	frequency	50 k	Hz			
	Core Loss (nominal)	226	mW/cm ³			
	Core Loss (maximum)	283	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> =9.058E-07, <i>c</i> =1.903, <i>d</i> =0.000					
	H _{DC}	100	Oe			
	Percent Initial Perm.(nom.)	63.3	%			
	Percent Initial Perm.(min.)	51.9	%			
Coating/Pkg	Coating Type:	Parylene N				
	Voltage Breakdown (min.)	500 Vrms				
	Limit	0.1 mA, 5 s				
	Package Quantity	27,000 Pcs/Box				
Winding Table	Wire Size	AWG	28	30	32	
		mm	0.315	0.250	0.200	
	Single Layer	Turns	12	16	21	
		Rdc(Ω)	22.0 m	46.7 m	97.4 m	1
	Full Winding	Turns	13	20	31	
		Rdc(Ω)	23.8 m	58.3 m	143.8 m	3

Special Spec:

Preliminary.

