

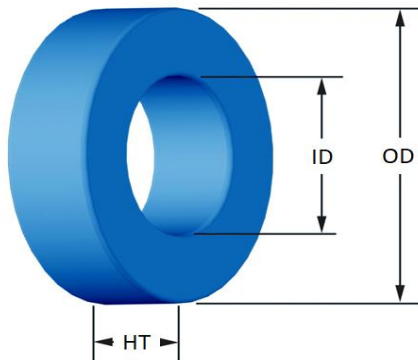


Part Number:

SM-226060-2

Revision:

2025-Feb-28



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

		mm	in
OD	(nom. - bare core)	57.15	2.250
	(max.)	58.04	2.285
ID	(nom. - bare core)	26.39	1.039
	(min.)	25.58	1.007
HT	(nom. - bare core)	15.24	0.600
	(max.)	16.13	0.635
Mass	(approximate)	190	grams
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	2.29	cm ²
	L _e - Eff. Mag. Path Length	12.506	cm
	V _e - Eff. Core Volume	28.6	cm ³
	WA - Min. Eff. Window Area	5.14	cm ²
	sa - Surface Area	105	cm ²
	mlt - mean length per turn	7.75	cm
Inductance	μ _i (reference)	60	
	A _L value (nominal)	138	nH/N ²
	Test Winding	60 Turns	AWG# 18
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.61	V
	AL tolerance	±8%	
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and:		
	a=1.000E+06, b=9.109E+08, c=1.221E+07, d=1.096E-14		
	B _{pk}	1000	G
	frequency	50 k	Hz
	Core Loss (nominal)	226	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=9.058E-07, c=1.903, d=0.000		
	H _{DC}	100	Oe
Coating/Pkg	Percent Initial Perm(nom.)	63.3	%
	Percent Initial Perm(min.)	52.9	%
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	60 Pcs/Box	
	Wire Size	AWG	8 10 12 14 16 18 20 22 24 26 28
	Single Layer	Turns	19 24 31 39 49 62 78 97 122 152 190
Full Winding	Rdc(Ω)	3.0 m	6.1 m 12.5 m 25.0 m 50.0 m 100.5 m 201.2 m 397.8 m 795.8 m 1.6 3.1
	Turns	27	42 64 100 154 239 370 572 886 1,371 2,122
Rdc(Ω)	4.3 m	10.6 m	25.8 m 64.1 m 157.0 m 387.5 m 954.2 m 2.3 5.8 14.2 35.0

