

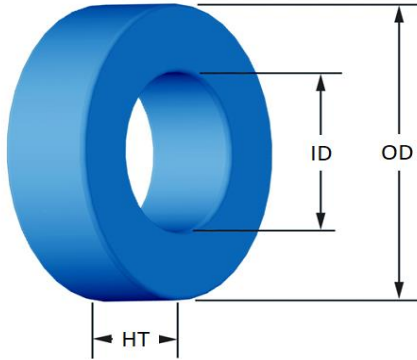


Part Number:

SM-025060-8

Revision:

2024-Dec-19



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

		mm	in
OD	(nom. - bare core)	6.35	0.250
	(max.)	6.99	0.275
ID	(nom. - bare core)	2.79	0.110
	(min.)	2.29	0.090
HT	(nom. - bare core)	2.79	0.110
	(max.)	3.43	0.135
Mass	(approximate)	0.42	grams
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.0476	cm ²
	L_e - Eff. Mag. Path Length	1.36	cm
	V_e - Eff. Core Volume	0.0642	cm ³
	W_A - Min. Eff. Window Area	0.0412	cm ²
	s_a - Surface Area	1.80	cm ²
	mlt - mean length per turn	1.27	cm
Inductance	μ_i (reference)	60	
	A_L value (nominal)	24	nH/N ²
	Test Winding	30 Turns	AWG# 32
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.006	V
	AL tolerance	±12%	
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:		
	$a=1.000E+06$, $b=9.109E+08$, $c=1.221E+07$, $d=1.096E-14$		
	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
	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	21,600 Pcs/Box	

Winding Table	Wire Size	AWG	26	28	30	32	34	36	38	40	42	44	-
		mm	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-
	Single Layer	Turns	11	14	19	24	30	38	49	61	77	96	-
		Rdc(Ω)	18.7 m	37.9 m	81.7 m	164.2 m	326.3 m	657.4 m	1.3	2.7	5.4	10.6	-
	Full Winding	Turns	11	17	26	41	63	98	151	234	362	560	-
		Rdc(Ω)	18.7 m	46.0 m	111.8 m	280.4 m	685.3 m	1.7	4.2	10.2	25.2	62.0	-

Special Spec:

Preliminary.

