

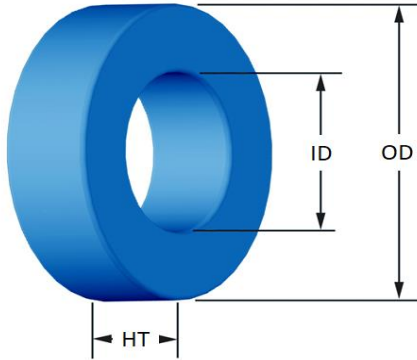


Part Number:

MS-068040-2H127

Revision:

2023-Dec-18



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

		mm	in
OD	(nom. - bare core)	17.27	0.680
	(max.)	18.03	0.710
ID	(nom. - bare core)	9.65	0.380
	(min.)	9.02	0.355
HT	(nom. - bare core)	12.70	0.500
	(max.)	13.46	0.530
Mass	(approximate)	10	grams
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.464	cm ²
	L _e - Eff. Mag. Path Length	4.14	cm
	V _e - Eff. Core Volume	1.92	cm ³
	W _A - Min. Eff. Window Area	0.639	cm ²
	s _a - Surface Area	15.8	cm ²
	m _{lt} - mean length per turn	4.04	cm
Inductance	μ _i (reference)	40	
	A _L value (nominal)	58	nH/N ²
	Test Winding	70 Turns	AWG# 28
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.14	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=6.961E+08, c=5.397E+06, d=4.127E-14		
	B _{pk}	1000	G
	frequency	50 k	Hz
	Core Loss (nominal)	441	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=2.655E-06, c=1.703, d=0.000		
	H _{dc}	100	Oe
	Percent Initial Perm(nom.)	59.6	%
	Percent Initial Perm(min.)	52.0	%
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	1,080 Pcs/Box	

Winding Table	Wire Size	AWG	14	16	18	20	22	24	26	28	30	32	34
		mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160
	Single Layer	Turns	12	15	20	26	32	41	52	65	82	102	128
	Full Winding	Rdc(Ω)	4.0 m	8.0 m	16.9 m	35.0 m	68.5 m	139.5 m	281.4 m	559.5 m	1.1	2.2	4.4
		Turns	12	19	30	46	71	110	170	264	408	632	978
		Rdc(Ω)	4.0 m	10.1 m	25.4 m	61.9 m	151.9 m	374.3 m	920.1 m	2.3	5.6	13.8	33.9

