

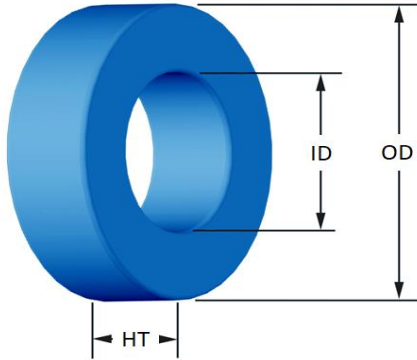


Part Number:

MS-068060-2H127

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)	11	grams
	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
	WA - Min. Eff. Window Area	0.639	cm ²
	sa - Surface Area	15.8	cm ²
Magnetic Dimensions	mlt - mean length per turn	4.04	cm
	μ _i (reference)	60	
	A _L value (nominal)	86	nH/N ²
	Test Winding	70 Turns	AWG# 28
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.14	V
Inductance	AL tolerance	±8%	

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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: $a=7.890E+09$, $b=7.111E+08$, $c=8.980E+06$, $d=2.846E-14$		
	B_{pk}	1000	G
	frequency	50 k	Hz
	Core Loss (nominal)	323	mW/cm ³
	Core Loss (maximum)	372	mW/cm ³

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 Turns	12	15	20	26	32	41	52	65	82	102	128
	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
Full Winding	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

