

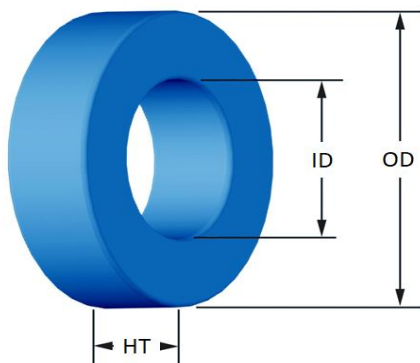


Part Number:

MS-068026-2H127

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)	9.8	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)	26	
	A _i value (nominal)	38	nH/N ²
	Test Winding	70 Turns	AWG# 28
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.14	V
Inductance	AL tolerance	±8%	

Core Loss	Core Loss(mW/cm ³)= $\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and:	
	a=1.000E+06, b=4.969E+08, c=3.993E+06, d=2.867E-14	
	B _{pk}	500 G
	frequency	100 k Hz
	Core Loss (nominal)	295 mW/cm ³
DC Saturation	Core Loss (maximum)	339 mW/cm ³

DC Saturation	%μ _i $\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	
	a=1.000E-02, b=2.061E-07, c=1.995, d=0.000	
	H _{dc}	200 Oe
	Percent Initial Perm(nom.)	55.4 %
	Percent Initial Perm(min.)	46.3 %
Coating/Pkg	Coating Type:	Blue Epoxy
	Voltage Breakdown (min.)	1000 Vrms
	Limit	0.1 mA, 5 s
	Package Quantity	1,080 Pcs/Box

DC Saturation	$\% \mu_i \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.000E-02, b=2.061E-07, c=1.995, d=0.000$		
	H _{DC}	200	Oe
	Percent Initial Perm(nom.)	55.4	%
	Percent Initial Perm(min.)	46.3	%

