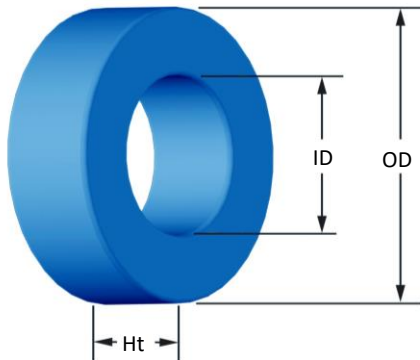




Part Number:

MS-080075-2H127

Revision 2021-Dec-01 - Generated 2021-Dec-01



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

OD	(nom. - bare core) (max.)	20.32 mm 21.08 mm	0.800 in 0.830 in
ID	(nom. - bare core) (min.)	12.70 mm 12.07 mm	0.500 in 0.475 in
HT	(nom. - bare core) (max.)	12.70 mm 13.46 mm	0.500 in 0.530 in
Mass	(approximate)	13 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.452 cm ²	
	L _e - Eff. Mag. Path Length	5.09 cm	
	V _e - Eff. Core Volume	2.30 cm ³	
	WA - Min. Eff. Window Area	1.14 cm ²	
	sa - Surface Area	20.3 cm ²	
Inductance	mlt - mean length per turn	4.20 cm	
	μ _i (reference)	75	
	A _L value (nominal)	82 nH/N ²	
	Test Winding	N=90, #28 AWG	
	Frequency	10 kHz	
Core Loss	Voltage on Agilent 4284A	0.18 V	
	AL tolerance	±8%	
	Core Loss(mW/cm³):	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	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	
DC Saturation	frequency	50 kHz	
	Core Loss (nominal)	323 mW/cm³	
	Core Loss (maximum)	372 mW/cm³	
	%μ _i	$\frac{1}{a + b \cdot H^c} + d$	
		where H expressed in oersteds, and: a=1.000E-02, b=3.414E-06, c=1.841, d=0.000	
Coating/Pkg	H _{DC}	80 Oe	
	Percent Initial Perm.(nom.)	47.9%	
	Percent Initial Perm.(min.)	39.6%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	900 Pcs/Box	
	Wire Size	AWG	10
		mm	2.500
	Single Layer	Turns	10

