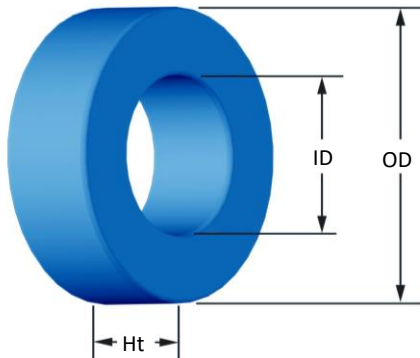




Part Number:

MS-080040-2H127

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	
	mlt - mean length per turn	4.20 cm	
Inductance	μ _i (reference)	40	
	A _L value (nominal)	42 nH/N ²	
	Test Winding	N=90, #28 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.18 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 kHz	
	Core Loss (nominal)	441 mW/cm ³	
	Core Loss (maximum)	507 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	900 Pcs/Box	

