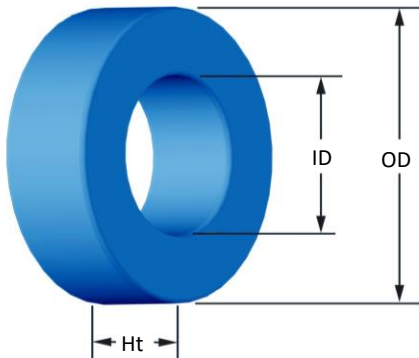




Part Number:

MS-025147-2

Revision 2022-Apr-28



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

OD	(nom. - bare core) (max.)	6.35 mm 6.99 mm	0.250 in 0.275 in
ID	(nom. - bare core) (min.)	2.79 mm 2.29 mm	0.110 in 0.090 in
HT	(nom. - bare core) (max.)	2.79 mm 3.43 mm	0.110 in 0.135 in
Mass	(approximate)	0.38 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0476 cm ²	
	L _e - Eff. Mag. Path Length	1.36 cm	
	V _e - Eff. Core Volume	0.0642 cm ³	
	WA - Min. Eff. Window Area	0.0412 cm ²	
	sa - Surface Area	1.80 cm ²	
Inductance	mlt - mean length per turn	1.27 cm	
	μ _i (reference)	147	
	A _L value (nominal)	58 nH/N ²	
	Test Winding	N=30, #32 AWG	
	Frequency	10 kHz	
Core Loss	Voltage on Agilent 4284A	0.006 V	
	AL tolerance	±12%	
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.394E+10$, $b=1.034E+09$, $c=1.244E+07$, $d=4.007E-14$		
	B _{pk}	1000 G	
DC Saturation	frequency	50 kHz	
	Core Loss (nominal)	276 mW/cm ³	
	Core Loss (maximum)	318 mW/cm ³	
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.000E-02$, $b=4.732E-05$, $c=1.539$, $d=0.000$		
Coating/Pkg	H _{DC}	40 Oe	
	Percent Initial Perm.(nom.)	42.0%	
	Percent Initial Perm.(min.)	35.3%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	21,600 Pcs/Box	
	Wire Size	AWG	
		mm	
		mm	
		mm	
		mm	
		mm	
		mm	
		mm	