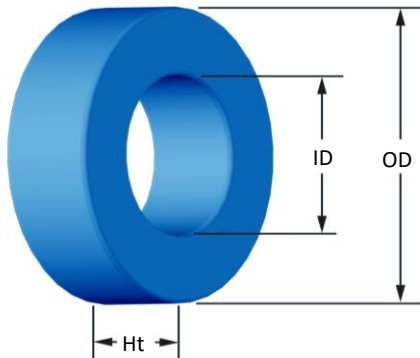




Part Number:

MS-026147-2

Revision 2022-Apr-28



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

OD	(nom. - bare core) (max.)	6.60 mm 7.32 mm	0.260 in 0.288 in
ID	(nom. - bare core) (min.)	2.67 mm 2.21 mm	0.105 in 0.087 in
HT	(nom. - bare core) (max.)	4.78 mm 5.54 mm	0.188 in 0.218 in
Mass	(approximate)	0.74 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0920 cm ²	
	L _e - Eff. Mag. Path Length	1.36 cm	
	V _e - Eff. Core Volume	0.125 cm ³	
	WA - Min. Eff. Window Area	0.0384 cm ²	
	sa - Surface Area	2.44 cm ²	
Inductance	mlt - mean length per turn	1.73 cm	
	μ _i (reference)	147	
	A _L value (nominal)	122 nH/N ²	
	Test Winding	N=35, #32 AWG	
	Frequency	10 kHz	
Core Loss	Voltage on Agilent 4284A	0.014 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	14,400 Pcs/Box	
	Wire Size	AWG	26
		mm	0.400
			0.315
			0.250
			0.200
			0.160
			0.125
			0.100
			0.080
			0.063
			0.050
			-
	Single Layer	Turns	11
		Rdc(Ω)	25.5 m
			51.5 m
			105.4 m
			214.2 m
			429.4 m
			871.4 m
			1.8
			3.5
			7.0
			14.0
			-
	Full Winding	Turns	10
		Rdc(Ω)	23.1 m
			58.9 m
			146.4 m
			353.8 m
			873.7 m
			2.1
			5.3
			13.0
			31.9
			78.6
			-

