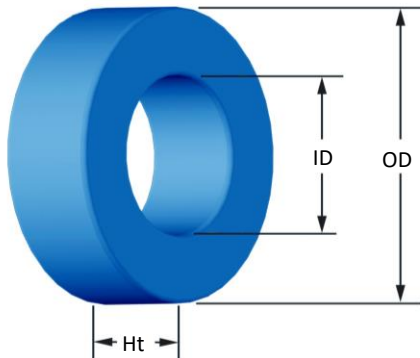




Part Number:

MS-028160-2

Revision 2022-Apr-28



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

OD	(nom. - bare core) (max.)	7.04 mm 7.67 mm	0.277 in 0.302 in
ID	(nom. - bare core) (min.)	3.96 mm 3.45 mm	0.156 in 0.136 in
HT	(nom. - bare core) (max.)	5.08 mm 5.72 mm	0.200 in 0.225 in
Mass	(approximate)	0.74 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.0750 cm ²	
	L_e - Eff. Mag. Path Length	1.68 cm	
	V_e - Eff. Core Volume	0.126 cm ³	
	W_A - Min. Eff. Window Area	0.0935 cm ²	
	S_a - Surface Area	2.80 cm ²	
Inductance	μ_i (reference)	160	
	A_L value (nominal)	89 nH/N ²	
	Test Winding	N=40, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.013 V	
Core Loss	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	
	frequency	50 kHz	
DC Saturation	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: $a=1.000E-02$, $b=4.439E-05$, $c=1.627$, $d=0.000$		
	H_{DC}	40 Oe	
Coating/Pkg	Percent Initial Perm(nom.)	35.8%	
	Percent Initial Perm(min.)	29.3%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	12,600 Pcs/Box	
	Wire Size	AWG	22
		mm	0.630
Single Layer	Turns	11	14
	Rdc(Ω)	10.1 m	20.5 m
	Turns	10	16
	Rdc(Ω)	9.2 m	23.4 m
Full Winding	Turns	10	16
	Rdc(Ω)	9.2 m	23.4 m
	Turns	25	39
	Rdc(Ω)	58.2 m	144.3 m

