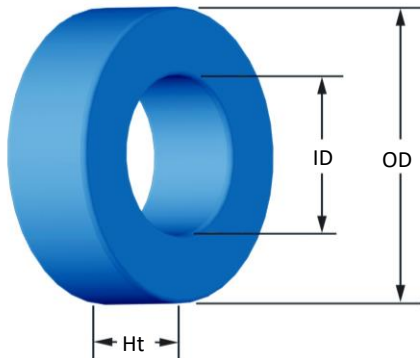




Part Number:

MS-027160-8

Revision 2022-Apr-28



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

OD	(nom. - bare core) (max.)	6.60 mm 7.24 mm	0.260 in 0.285 in
ID	(nom. - bare core) (min.)	2.67 mm 2.29 mm	0.105 in 0.090 in
HT	(nom. - bare core) (max.)	2.54 mm 3.18 mm	0.100 in 0.125 in
Mass	(approximate)	0.38 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0467 cm ²	
	L _e - Eff. Mag. Path Length	1.36 cm	
	V _e - Eff. Core Volume	0.0640 cm ³	
	W _A - Min. Eff. Window Area	0.0412 cm ²	
	S _A - Surface Area	1.83 cm ²	
Inductance	mlt - mean length per turn	1.25 cm	
	μ _i (reference)	160	
	A _L value (nominal)	69 nH/N ²	
	Test Winding	N=35, #32 AWG	
	Frequency	10 kHz	
Core Loss	Voltage on Agilent 4284A	0.007 V	
	AL tolerance	±12%	
	Core Loss(mW/cm ³):	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and:	a=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	
	%μ _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	
Coating/Pkg	H _{DC}	40 Oe	
	Percent Initial Perm.(nom.)	35.8%	
	Percent Initial Perm.(min.)	29.3%	
	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	21,600 Pcs/Box	
	Wire Size	AWG	26
		mm	0.400
	Single Layer	Turns	11
	R _{dc} (Ω)	18.3 m	
Full Winding	Turns	17	
	R _{dc} (Ω)	45.1 m	

