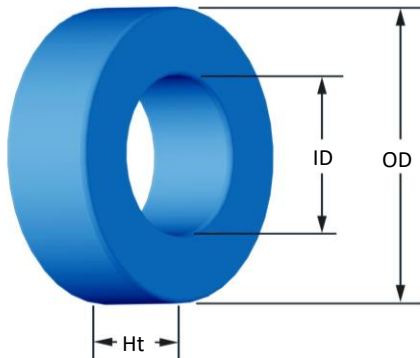




Part Number:

MS-068040-2

Revision 2021-Dec-01 - Generated 2021-Dec-01



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

OD	(nom. - bare core) (max.)	17.27 mm 18.03 mm	0.680 in 0.710 in
ID	(nom. - bare core) (min.)	9.65 mm 9.02 mm	0.380 in 0.355 in
HT	(nom. - bare core) (max.)	6.35 mm 7.11 mm	0.250 in 0.280 in
Mass	(approximate)	5.2 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.232 cm ²	
	L_e - Eff. Mag. Path Length	4.14 cm	
	V_e - Eff. Core Volume	0.961 cm ³	
	W_A - Min. Eff. Window Area	0.639 cm ²	
	S_A - Surface Area	11.7 cm ²	
Inductance	μ_i (reference)	40	
	A_L value (nominal)	29 nH/N ²	
	Test Winding	N=70, #28 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.072 V	
Core Loss	AL tolerance	±8%	
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	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	
DC Saturation	Core Loss (nominal)	441 mW/cm ³	
	Core Loss (maximum)	507 mW/cm ³	
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.000E-02$, $b=2.655E-06$, $c=1.703$, $d=0.000$		
	H_{DC}	100 Oe	
Coating/Pkg	Percent Initial Perm(nom.)	59.6%	
	Percent Initial Perm(min.)	52.0%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	2,340 Pcs/Box	

Wire Size	AWG	14	16	18	20	22	24	26	28	30	32	34
	mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160
Single Layer	Turns	12	15	20	26	32	41	52	65	82	102	128
	Rdc(Ω)	2.8 m	5.5 m	11.6 m	24.0 m	47.0 m	95.7 m	193.1 m	383.8 m	770.0 m	1.5	3.0
Full Winding	Turns	12	19	30	46	71	110	170	264	408	632	978
	Rdc(Ω)	2.8 m	6.9 m	17.4 m	42.5 m	104.2 m	256.8 m	631.1 m	1.6	3.8	9.4	23.2

