



Part Number: MS-134125-2

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



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

OD	(nom. - bare core) (max.)	33.02 mm 33.83 mm	1.300 in 1.332 in
ID	(nom. - bare core) (min.)	19.94 mm 19.30 mm	0.785 in 0.760 in
HT	(nom. - bare core) (max.)	18.00 mm 19.00 mm	0.709 in 0.748 in
Mass	(approximate)	53 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.10 cm ²	
	L _e - Eff. Mag. Path Length	8.15 cm	
	V _e - Eff. Core Volume	8.98 cm ³	
	WA - Min. Eff. Window Area	2.93 cm ²	
	sa - Surface Area	49.1 cm ²	
Inductance	μ _i (reference)	125	
	A _L value (nominal)	214 nH/N ²	
Core Loss	Test Winding	N=70, #22 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.34 V	
	AL tolerance	±8%	
	Core Loss(mW/cm ³):	$\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}} + d \cdot Bpk^2 \cdot f^2$	
DC Saturation	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	
	Core Loss (nominal)	276 mW/cm ³	
	Core Loss (maximum)	318 mW/cm ³	
DC Saturation	%μ _i $\frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=7.884E-06, c=1.883, d=0.000		
	H _{dc}	40 Oe	
Coating/Pkg	Percent Initial Perm(nom.)	55.0%	
	Percent Initial Perm(min.)	46.4%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	320 Pcs/Box	
	Wire Size	AWG	8 10 12 14 16 18 20 22 24 26 28
	mm	3.150 2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315	
Single Layer	Turns	14 18 22 29 36 46 58 73 91 114 142	
	Rdc(Ω)	1.8 m 3.7 m 7.1 m 14.9 m 29.4 m 59.8 m 120.0 m 240.2 m 476.2 m 948.7 m 1.9	
Full Winding	Turns	15 24 37 57 88 136 211 326 504 780 1,208	
	Rdc(Ω)	1.9 m 4.9 m 12.0 m 29.3 m 72.0 m 176.9 m 436.5 m 1.1 2.6 6.5 16.0	

