



**Part Number: MS-131060-2**  
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<b>OD</b>	(nom. - bare core) (max. - after coating)	33.02 mm 33.83 mm	1.300 in 1.332 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	19.94 mm 19.30 mm	0.785 in 0.760 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	8.76 mm 9.70 mm	0.345 in 0.382 in
<b>Mass</b>	(approximate)	26 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.551 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	8.15 cm	
	V <sub>e</sub> - Eff. Core Volume	4.49 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	2.93 cm <sup>2</sup>	
	sa - Surface Area	37.8 cm <sup>2</sup>	
	mlt - mean length per turn	4.36 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	60	
	A <sub>L</sub> value (nominal)	51 nH/N <sup>2</sup>	
	Test Winding	N=70, #22 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.17 V	
<b>Core Loss</b>	AL tolerance	±8%	
	Core Loss(mW/cm <sup>3</sup> )=	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and:	a=7.890E+09, b=7.111E+08, c=8.980E+06, d=2.846E-14	
	B <sub>pk</sub>	1000 G	
	frequency	50 kHz	
<b>DC Saturation</b>	Core Loss (nominal)	323 mW/cm <sup>3</sup>	
	Core Loss (maximum)	372 mW/cm <sup>3</sup>	
	%μ <sub>i</sub> =	$\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	a=1.000E-02, b=2.151E-06, c=1.841, d=0.000	
<b>Coating/Pkg</b>	H <sub>DC</sub>	100 Oe	
	Percent Initial Perm.(nom.)	49.2%	
	Percent Initial Perm.(min.)	40.9%	
	Coating Type:	Blue Epoxy	
<b>Winding Table</b>	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	576 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Single Layer</b>	Turns	14	18	22	29	36	46	58	73	91	114	142
		Rdc(Ω)	1.3 m	2.6 m	5.0 m	10.5 m	20.6 m	41.9 m	84.1 m	168.3 m	333.7 m	664.9 m	1.3
<b>Full Winding</b>	Turns	15	24	37	57	88	136	211	326	504	780	1,208	
	Rdc(Ω)	1.3 m	3.4 m	8.4 m	20.5 m	50.4 m	124.0 m	305.9 m	751.8 m	1.8	4.5	11.2	

