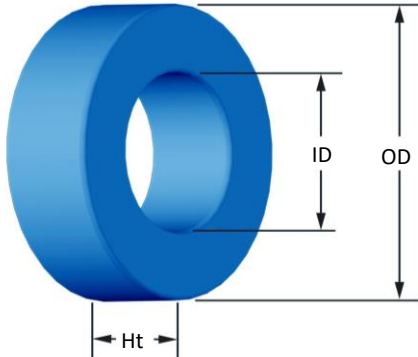




**Part Number:** **MS-521060-2**

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



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

<b>OD</b>	(nom. - bare core) (max.)	132.54 mm 134.21 mm	5.218 in 5.284 in										
<b>ID</b>	(nom. - bare core) (min.)	78.59 mm 77.04 mm	3.094 in 3.033 in										
<b>HT</b>	(nom. - bare core) (max.)	25.40 mm 26.80 mm	1.000 in 1.055 in										
<b>Mass</b>	(approximate)	1,260 grams											
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	6.71 cm <sup>2</sup>											
	L <sub>e</sub> - Eff. Mag. Path Length	32.429 cm											
	V <sub>e</sub> - Eff. Core Volume	218 cm <sup>3</sup>											
	WA - Min. Eff. Window Area	46.6 cm <sup>2</sup>											
	sa - Surface Area	540 cm <sup>2</sup>											
<b>Inductance</b>	μ <sub>i</sub> (reference)	60											
	A <sub>L</sub> value (nominal)	156 nH/N <sup>2</sup>											
<b>Core Loss</b>	Test Winding	N=200, #18 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	6.0 V											
	AL tolerance	±8%											
	Core Loss(mW/cm <sup>3</sup> ):	$\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$											
<b>DC Saturation</b>	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											
	Core Loss (nominal)	323 mW/cm <sup>3</sup>											
	Core Loss (maximum)	372 mW/cm <sup>3</sup>											
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.000E-02, b=2.151E-06, c=1.841, d=0.000												
	H <sub>DC</sub>	100 Oe											
<b>Coating/Pkg</b>	Percent Initial Perm(nom.)	49.2%											
	Percent Initial Perm(min.)	40.9%											
	Coating Type:	Blue Epoxy											
	Voltage Breakdown (min.)	1000 Vrms											
<b>Winding Table</b>	Limit	0.1 mA, 5 s											
	Package Quantity	4 Pcs/Box											
	<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	62	78	98	123	154	192	239	298	372	463	577	
	Rdc(Ω)	19.0 m	38.1 m	76.1 m	151.9 m	302.4 m	599.6 m	1.2	2.4	4.7	9.3	18.3	
<b>Full Winding</b>	Turns	244	378	584	905	1,400	2,167	3,354	5,191	8,035	12,436	19,248	
	Rdc(Ω)	74.9 m	184.5 m	453.4 m	1.1	2.7	6.8	16.7	41.0	100.9	248.5	611.6	

