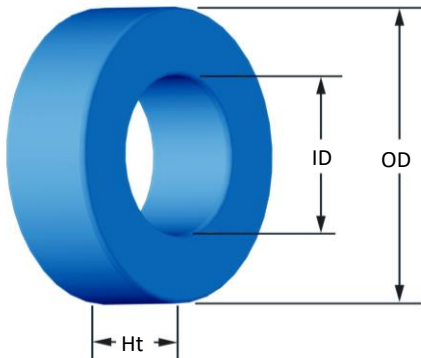




**Part Number:** **MS-080075-2**

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



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

<b>OD</b>	(nom. - bare core) (max.)	20.32 mm 21.08 mm	0.800 in 0.830 in										
<b>ID</b>	(nom. - bare core) (min.)	12.70 mm 12.07 mm	0.500 in 0.475 in										
<b>HT</b>	(nom. - bare core) (max.)	6.35 mm 7.11 mm	0.250 in 0.280 in										
<b>Mass</b>	(approximate)	6.7 grams											
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.226 cm <sup>2</sup>											
	L <sub>e</sub> - Eff. Mag. Path Length	5.09 cm											
	V <sub>e</sub> - Eff. Core Volume	1.15 cm <sup>3</sup>											
	WA - Min. Eff. Window Area	1.14 cm <sup>2</sup>											
	sa - Surface Area	15.5 cm <sup>2</sup>											
<b>Inductance</b>	μ <sub>i</sub> (reference)	75											
	A <sub>L</sub> value (nominal)	41 nH/N <sup>2</sup>											
<b>Core Loss</b>	Test Winding	N=90, #28 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.090 V											
	AL tolerance	±8%											
	Core Loss(mW/cm <sup>3</sup> ):	$\frac{f}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}} + d \cdot Bpk^2 \cdot f^2$											
<b>DC Saturation</b>	%μ <sub>i</sub> $\frac{1}{a + b \cdot H^c} + d$	where H expressed in oersteds, and: a=1.000E-02, b=3.414E-06, c=1.841, d=0.000											
	H <sub>DC</sub>	80 Oe											
	Percent Initial Perm(nom.)	47.9%											
	Percent Initial Perm(min.)	39.6%											
	Coating/Pkg	Coating Type:	Blue Epoxy										
<b>Winding Table</b>	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
	Single Layer	Turns	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
		Rdc(Ω)	1.0 m	2.0 m	4.1 m	8.5 m	17.1 m	34.1 m	68.1 m	137.9 m	274.2 m	548.2 m	1.1
	Full Winding	Turns	9	14	22	34	53	82	127	197	305	472	731
Rdc(Ω)		0.9 m	2.1 m	5.3 m	13.1 m	32.4 m	79.8 m	196.7 m	485.2 m	1.2	2.9	7.2	

