



Part Number: **MS-065075-2**

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



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

OD	(nom. - bare core) (max.)	16.64 mm 17.40 mm	0.655 in 0.685 in									
ID	(nom. - bare core) (min.)	10.16 mm 9.53 mm	0.400 in 0.375 in									
HT	(nom. - bare core) (max.)	6.35 mm 7.11 mm	0.250 in 0.280 in									
Mass	(approximate)	4.6 grams										
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.192 cm ²										
	L _e - Eff. Mag. Path Length	4.11 cm										
	V _e - Eff. Core Volume	0.789 cm ³										
	WA - Min. Eff. Window Area	0.713 cm ²										
	sa - Surface Area	11.2 cm ²										
Inductance	μ _i (reference)	75										
	A _L value (nominal)	43 nH/N ²										
Core Loss	Test Winding	N=70, #28 AWG										
	Frequency	10 kHz										
	Voltage on Agilent 4284A	0.060 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=7.890E+09, b=7.111E+08, c=8.980E+06, d=2.846E-14											
	B _{pk}	1000 G										
	frequency	50 kHz										
	Core Loss (nominal)	323 mW/cm ³										
	Core Loss (maximum)	372 mW/cm ³										
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and: a=1.000E-02, b=3.414E-06, c=1.841, d=0.000											
	H _{DC}	80 Oe										
Coating/Pkg	Percent Initial Perm(nom.)	47.9%										
	Percent Initial Perm(min.)	39.6%										
	Coating Type:	Blue Epoxy										
	Voltage Breakdown (min.)	1000 Vrms										
Winding Table	Limit	0.1 mA, 5 s										
	Package Quantity	2,880 Pcs/Box										
	Wire Size	AWG	12	14	16	18	20	22	24	26	28	30
Single Layer	Turns	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200
	Rdc(Ω)	1.4 m	2.9 m	6.0 m	11.8 m	24.1 m	48.3 m	99.4 m	197.7 m	394.4 m	781.8 m	1.6
Full Winding	Turns	9	14	21	33	51	79	123	190	295	456	706
	Rdc(Ω)	1.3 m	3.1 m	7.4 m	18.5 m	45.6 m	112.3 m	278.0 m	682.9 m	1.7	4.1	10.2

