



Part Number: **OC-250090-2**

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



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

OD	(nom. - bare core) (max.)	63.50 mm 64.77 mm	2.500 in 2.550 in										
ID	(nom. - bare core) (min.)	31.37 mm 30.48 mm	1.235 in 1.200 in										
HT	(nom. - bare core) (max.)	25.00 mm 25.90 mm	0.984 in 1.020 in										
Mass	(approximate)	380 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	3.89 cm ²											
	L _e - Eff. Mag. Path Length	14.314 cm											
	V _e - Eff. Core Volume	55.8 cm ³											
	WA - Min. Eff. Window Area	7.30 cm ²											
	sa - Surface Area	150 cm ²											
Inductance	μ _i (reference)	90											
	A _L value (nominal)	310 nH/N ²											
Core Loss	Test Winding	N=100, #18 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	1.7 V											
	AL tolerance	±8%											
	Core Loss(mW/cm ³):	$\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$											
DC Saturation	where B _{pk} expressed in gauss, f expressed in hertz, and: a=3.398E+09, b=1.939E+09, c=4.260E+06, d=1.685E-14												
	B _{pk}	1000 G											
	frequency	50 kHz											
	Core Loss (nominal)	211 mW/cm ³											
	Core Loss (maximum)	243 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=4.557E-07, c=2.175, d=0.000												
	H _{DC}	50 Oe											
Coating/Pkg	Percent Initial Perm(nom.)	81.6%											
	Percent Initial Perm(min.)	74.9%											
	Coating Type:	Blue Epoxy											
	Voltage Breakdown (min.)	1000 Vrms											
Winding Table	Limit	0.1 mA, 5 s											
	Package Quantity	27 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	23	29	37	47	59	74	93	116	145	182	227	
	Rdc(Ω)	4.8 m	9.6 m	19.5 m	39.4 m	78.6 m	156.9 m	313.5 m	622.0 m	1.2	2.5	4.9	
Full Winding	Turns	38	59	91	142	219	339	525	813	1,258	1,947	3,013	
	Rdc(Ω)	7.9 m	19.6 m	48.0 m	119.0 m	291.9 m	718.6 m	1.8	4.4	10.7	26.4	65.0	

