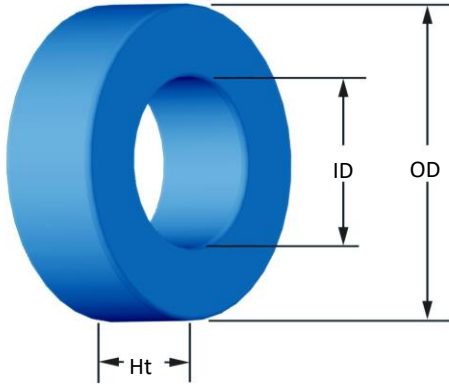




Part Number:

MP-350147-2

Revision 20170623 - Generated 2017-Jun-23



OD	(nom. - bare core) (max. - after coating)	88.85 mm 90.00 mm	3.498 in 3.543 in										
ID	(nom. - bare core) (min. - after coating)	66.01 mm 64.74 mm	2.599 in 2.549 in										
Ht	(nom. - bare core) (max. - after coating)	15.93 mm 17.20 mm	0.627 in 0.677 in										
Mass	(approximate)	340 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.83 cm ²											
	L _e - Eff. Mag. Path Length	24 cm											
	V _e - Eff. Core Volume	43.9 cm ³											
	WA - Min. Eff. Window Area	32.9 cm ²											
	sa - Surface Area	251 cm ²											
	mlt - mean length per turn	9.20 cm											
Inductance	μ _i (reference)	147											
	A _L value (nominal)	141 nH/N ²											
	Test Winding	N=100, #18 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.81 V											
	AL tolerance	±8%											
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=3.167E+10, b=1.206E+09, c=9.656E+06, d=5.636E-14												
	B _{pk}	1000 G											
	frequency	50 kHz											
	Core Loss (nominal)	312 mW/cm ³											
Core Loss (maximum)	359 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=1.089E-05, c=1.874, d=0.000												
	H _{0c}	40 Oe											
	Percent Initial Perm.(nom.)	47.8%											
Percent Initial Perm.(min.)	39.4%												
Coating/Pkg	Coating Type:	Blue Epoxy											
	Voltage Breakdown (min.)	1000 Vrms											
	Limit	0.1 mA, 5 s											
	Package Quantity	45 Pcs/Box											
Winding Table	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	52	65	82	103	129	161	201	250	312	389	485
		Rdc(Ω)	9.8 m	19.6 m	39.2 m	78.4 m	156.2 m	310.0 m	615.5 m	1.2	2.4	4.8	9.5
Full Winding	Turns	172	267	413	639	989	1,530	2,369	3,666	5,674	8,782	13,592	
	Rdc(Ω)	32.5 m	80.4 m	197.7 m	486.4 m	1.2	2.9	7.3	17.9	43.9	108.2	266.3	

