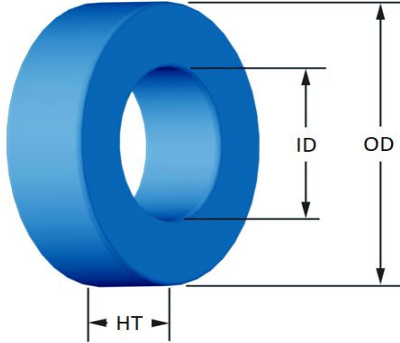




Part Number: OE-018040-8

Revision: 2025-Nov-19



(If coated, Max./Min. includes coating)		mm	in										
OD	(nom. - bare core)	4.65	0.183										
	(max.)	5.21	0.205										
ID	(nom. - bare core)	2.36	0.093										
	(min.)	1.93	0.076										
HT	(nom. - bare core)	2.54	0.100										
	(max.)	3.30	0.130										
Mass	(approximate)	0.20	grams										
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0285	cm ²										
	L _e - Eff. Mag. Path Length	1.06	cm										
	V _e - Eff. Core Volume	0.0302	cm ³										
	WA - Min. Eff. Window Area	0.0293	cm ²										
	sa - Surface Area	1.15	cm ²										
	mL - mean length per turn	1.08	cm										
Inductance	μ _i (reference)	40											
	A _e value (nominal)	13	nH/N ²										
	Test Winding	30 Turns	AWG# 32										
	Frequency	10k	Hz										
	Voltage on Agilent 4284A	0.004	V										
AL tolerance		±8%											
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{a} + \frac{b}{B_{pk}^3} + \frac{c}{B_{pk}^{2.3}} + \frac{d \cdot B_{pk}^2 \cdot f^2}{B_{pk}^{1.65}}$												
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=5.6302E+09, b=7.2075E+08, c=3.8601E+06, d=1.9608E-14												
	B _{pk}	1000	G										
	frequency	50 k	Hz										
	Core Loss (nominal)	407	mW/cm ³										
Core Loss (maximum)	468	mW/cm ³											
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.0000E-02, b=1.6194E-07, c=2.0622, d=0.0000												
	H _{DC}	100	Oe										
	Percent Initial Perm.(nom.)	82.3	%										
Percent Initial Perm.(min.)	76.1	%											
Coating/Pkg	Coating Type:	Parylene N											
	Voltage Breakdown (min.)	500 Vrms											
	Limit	0.1 mA, 5 s											
	Package Quantity	27,000 Pcs/Box											
Winding Table	Wire Size	AWG	28	30	32	34	36	38	40	42	44	-	-
		mm	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-	-
	Single Layer	Turns	12	15	20	25	32	40	51	64	81	-	-
		Rdc(Ω)	27.7 m	55.1 m	116.8 m	232.1 m	472.6 m	939.5 m	1.9	3.8	7.7	-	-
Full Winding	Turns	12	19	29	45	69	107	166	257	398	-	-	
	Rdc(Ω)	27.7 m	69.8 m	169.3 m	417.9 m	1.0	2.5	6.2	15.3	37.6	-	-	

Special Spec: Preliminary Material Specification.

