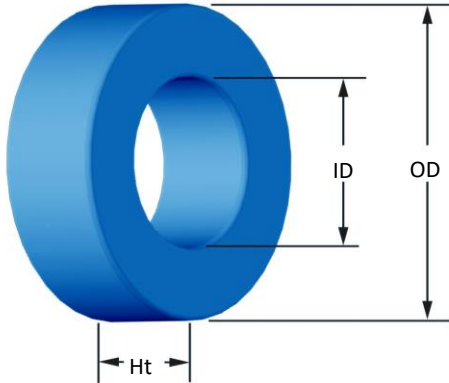




Part Number:

SH-018026-8

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	4.65 mm 5.21 mm	0.183 in 0.205 in										
ID	(nom. - bare core) (min. - after coating)	2.36 mm 1.93 mm	0.093 in 0.076 in										
Ht	(nom. - bare core) (max. - after coating)	2.54 mm 3.30 mm	0.100 in 0.130 in										
Mass	(approximate)	0.16 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											
	mlt - mean length per turn	1.08 cm											
Inductance	μ _i (reference)	26											
	A _L value (nominal)	9 nH/N ²											
	Test Winding	N=30, #32 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.004 V											
	AL tolerance	±15%											
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=1.000E+06, b=3.287E+08, c=5.779E+06, d=1.240E-14												
	B _{pk}	500 G											
	frequency	100 kHz											
	Core Loss (nominal)	277 mW/cm ³											
Core Loss (maximum)	318 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=1.042E-06, c=1.701, d=0.000												
	H _{0c}	200 Oe											
	Percent Initial Perm.(nom.)	53.9%											
Percent Initial Perm.(min.)	46.1%												
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	-	-

