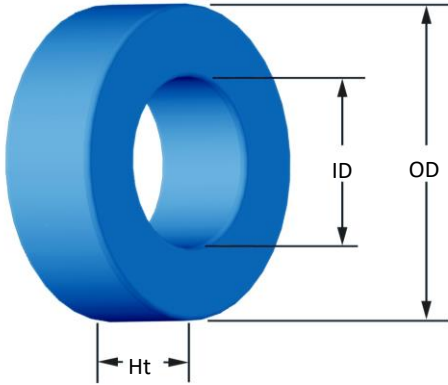




Part Number:

SH-025060-8

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	6.35 mm 6.99 mm	0.250 in 0.275 in										
ID	(nom. - bare core) (min. - after coating)	2.79 mm 2.29 mm	0.110 in 0.090 in										
Ht	(nom. - bare core) (max. - after coating)	2.79 mm 3.43 mm	0.110 in 0.135 in										
Mass	(approximate)	0.36 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0476 cm ²											
	L _e - Eff. Mag. Path Length	1.36 cm											
	V _e - Eff. Core Volume	0.0642 cm ³											
	WA - Min. Eff. Window Area	0.0412 cm ²											
	sa - Surface Area	1.80 cm ²											
	mlt - mean length per turn	1.27 cm											
Inductance	μ _i (reference)	60											
	A _L value (nominal)	24 nH/N ²											
	Test Winding	N=30, #32 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.006 V											
AL tolerance	±12%												
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=8.801E+08, c=5.421E+06, d=1.033E-14												
	B _{pk}	1000 G											
	frequency	50 kHz											
	Core Loss (nominal)	317 mW/cm ³											
Core Loss (maximum)	365 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=7.724E-06, c=1.612, d=0.000												
	H _{0c}	100 Oe											
	Percent Initial Perm(nom.)	43.6%											
Percent Initial Perm(min.)	36.5%												
Coating/Pkg	Coating Type:	Parylene N											
	Voltage Breakdown (min.)	500 Vrms											
	Limit	0.1 mA, 5 s											
	Package Quantity	21,600 Pcs/Box											
Winding Table	Wire Size	AWG	26	28	30	32	34	36	38	40	42	44	-
		mm	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-
	Single Layer Winding	Turns	11	14	19	24	30	38	49	61	77	96	-
		Rdc(Ω)	18.7 m	37.9 m	81.7 m	164.2 m	326.3 m	657.4 m	1.3	2.7	5.4	10.6	-
Full Winding	Turns	11	17	26	41	63	98	151	234	362	560	-	
	Rdc(Ω)	18.7 m	46.0 m	111.8 m	280.4 m	685.3 m	1.7	4.2	10.2	25.2	62.0	-	

