



**Part Number:** **SH-027060-8**

Revision 20190403 - Generated 2019-Apr-04



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

<b>OD</b>	(nom. - bare core) (max.)	6.60 mm 7.24 mm	0.260 in 0.285 in
<b>ID</b>	(nom. - bare core) (min.)	2.67 mm 2.29 mm	0.105 in 0.090 in
<b>HT</b>	(nom. - bare core) (max.)	2.54 mm 3.18 mm	0.100 in 0.125 in
<b>Mass</b>	(approximate)	0.36 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.0467 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	1.36 cm	
	V <sub>e</sub> - Eff. Core Volume	0.0640 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	0.0412 cm <sup>2</sup>	
	sa - Surface Area	1.83 cm <sup>2</sup>	
	mlt - mean length per turn	1.25 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	60	
	A <sub>L</sub> value (nominal)	26 nH/N <sup>2</sup>	
	Test Winding	N=35, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.007 V	
	AL tolerance	±12%	
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B <sub>pk</sub> 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 <sub>pk</sub>	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	317 mW/cm <sup>3</sup>	
Core Loss (maximum)	365 mW/cm <sup>3</sup>		
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=7.724E-06, c=1.612, d=0.000		
	H <sub>DC</sub>	100 Oe	
	Percent Initial Perm(nom.)	43.6%	
Percent Initial Perm(min.)	36.5%		
<b>Coating/Pkg</b>	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	21,600 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	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	-
	<b>Single Layer</b>	Turns	11	14	19	24	30	38	49	61	77	96	-
		Rdc(Ω)	18.3 m	37.1 m	80.1 m	160.9 m	319.9 m	644.5 m	1.3	2.6	5.3	10.4	-
<b>Full Winding</b>	Turns	11	17	26	41	63	98	151	234	362	560	-	
	Rdc(Ω)	18.3 m	45.1 m	109.6 m	274.9 m	671.8 m	1.7	4.1	10.0	24.7	60.8	-	

