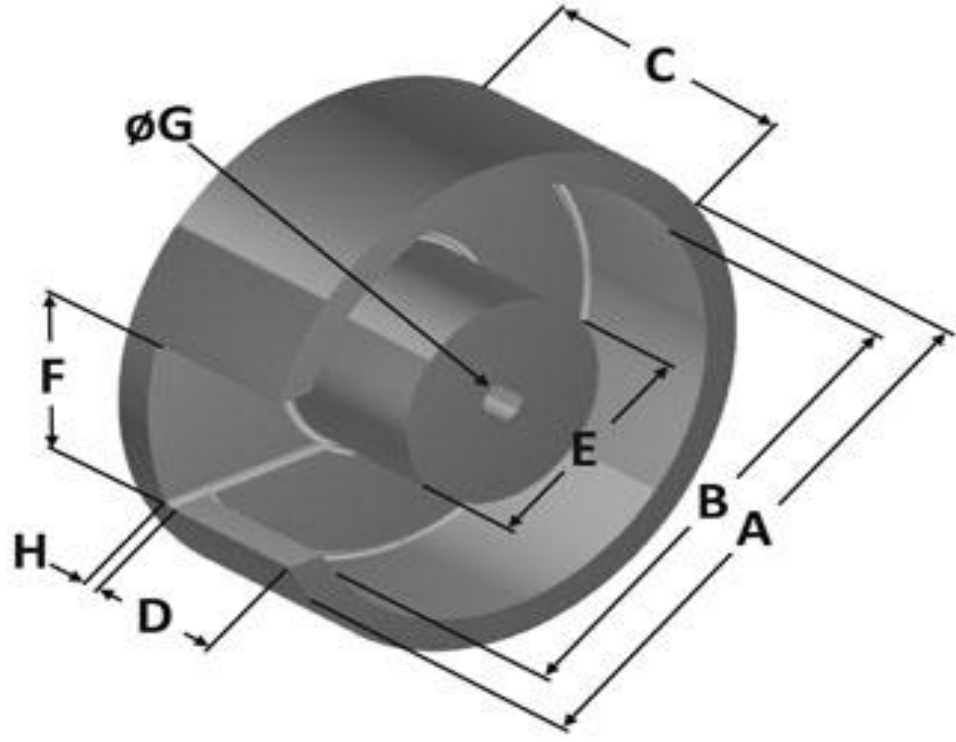




**Part Number:** **PC101-440B**

Revision 20190524 - Generated 2019-May-30



<b>A</b>	80.00 ± 0.30 mm	3.150 ± 0.012 in
<b>B</b>	69.00 ± 0.30 mm	2.717 ± 0.012 in
<b>C</b>	25.50 ± 0.30 mm	1.004 ± 0.012 in
<b>D</b>	16.00 ± 0.30 mm	0.630 ± 0.012 in
<b>E</b>	40.50 ± 0.30 mm	1.594 ± 0.012 in
<b>F</b>	20.00 ± 0.30 mm	0.787 ± 0.012 in
<b>G</b>	4.50 ± 0.30 mm	0.177 ± 0.008 in
<b>H</b>	1.57 Typical	0.062 Typical
<b>Mass</b>	(approximate)	590 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	13.5 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	14.1 cm
	V <sub>e</sub> - Eff. Core Volume	170 cm <sup>3</sup>
	WA - Min. Eff. Window Area	4.46 cm <sup>2</sup>
	sa - Surface Area	178 cm <sup>2</sup>
	mlt - mean length per turn	17.2 cm
<b>Inductance</b>	μ <sub>i</sub> (reference)	60
	A <sub>L</sub> value (nominal)	529 nH/N <sup>2</sup>
	Test Winding	N=100, #14 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	5.0 V
	A <sub>L</sub> tolerance	±10%
<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=1.10E+09, b=3.30E+07, c=2.50E+06, d=3.10E-13	
	B <sub>pk</sub>	140 G
	frequency	100 kHz
	Core Loss (nominal)	127 mW/cm <sup>3</sup>
Core Loss (maximum)	146 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=1.00E-02, b=8.93E-06, c=1.61, d=0.00	
	H <sub>DC</sub>	50 Oe
	Percent Initial Perm(nom.)	67.0%
Percent Initial Perm(min.)	60.2%	
<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	30 Halves/Box

