



**Part Number:** BFS-0503020-040

Revision 20160414 - Generated 2016-Apr-28



<b>A</b>	50.00 ± 0.50 mm	1.969 ± 0.020 in
<b>B</b>	30.00 ± 0.50 mm	1.181 ± 0.020 in
<b>C</b>	20.00 ± 0.50 mm	0.787 ± 0.020 in
<b>R</b>	1.5 ± 0.50 mm	0.059 ± 0.020 in
	$\mu_i$ (reference)	40
<b>Mass</b>	(approximate)	190 grams
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$	
	where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: $a=1.00E+06$ , $b=2.70E+08$ , $c=3.23E+06$ , $d=7.09E-14$	
	$B_{pk}$	1000 G
	frequency	50 kHz
	Core Loss (nominal)	889 mW/cm <sup>3</sup>
Core Loss (maximum)	1,022 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: $a=0.01$ , $b=1.53E-06$ , $c=1.62$ , $d=0.00$	
	$H_{DC}$	100 Oe
	Percent Initial Perm(nom.)	79.0%
	Percent Initial Perm(min.)	73.7%
<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	80 Pieces/Box

