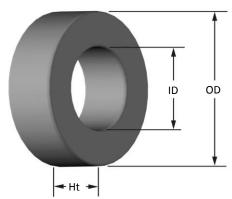


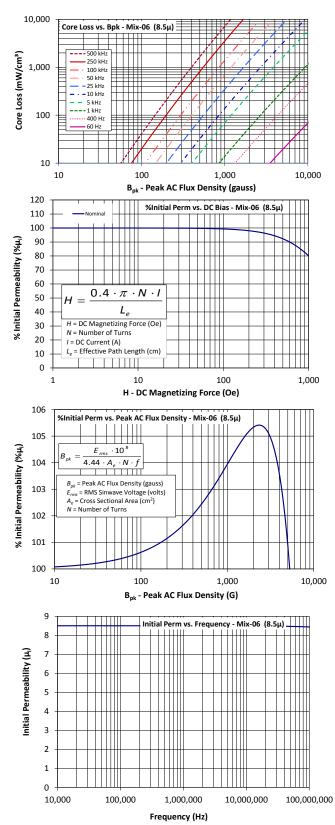
Part Number:

T50-6

Revision 20190404 - Generated 2019-Apr-04



	,	nax after coating) 13.21 mm 0.520 in								
ID	(nom bare core)	•								
	(nom bare core)									
Ht	(max after coating)	5.33 mm	0.210 in							
Mass										
SI	A <sub>e</sub> - Eff. Mag. Cross Section	0.112 cm <sup>2</sup>								
Magnetic Dimensions	L <sub>e</sub> - Eff. Mag. Path Length	3.19 cm								
mer	۷٫ - Eff. Core Volume	0.358 cm <sup>3</sup>								
i D	WA - Min. Eff. Window Area	0.406 cm <sup>2</sup>								
inet	sa - Surface Area	6.44 cm <sup>2</sup>								
Mag	mlt - mean length per turn	2.03 cm								
	μ <sub>i</sub> (reference)	8.5								
Inductance	A <sub>L</sub> value (nominal)	4 nH/N <sup>2</sup>								
	Test Winding	N=50, #27 AWG								
	Frequency	1 MHz								
	Voltage on Agilent 4284A	1.0 V								
	A <sub>L</sub> tolerance	±5%								
		f	$+d \cdot Bpk^2 \cdot j$	f²						
& Ø	$\frac{1}{Bpk^{3}} + \frac{1}{Bpk^{2.3}} + \frac{1}{Bpk^{1.65}}$									
Core Loss & Q	where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: a=4.00E+09, $b=3.00E+08$ , $c=2.70E+06$ , $d=8.90E-16$									
e L	Q test winding	N=25, #22 AWG	E-10							
Ö	Q frequency	10 MHz								
	Q irequeriey									
	O min on HP4342A	237								
Ŭ	Q min on HP4342A									
	$\%\mu_{i} = \frac{1}{a + b \cdot H^{c}} + d$	237								
	$\%\mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersted	237 ds, and:								
	$\%\mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersted $a=1.00E-02, b=4.87E-08, c=1$	237 ds, and: 1.57, d=0.00								
DC Saturation (	$\%\mu_{i} = \frac{1}{a + b \cdot H^{c}} + d$ where H expressed in oersted a=1.00E-02, b=4.87E-08, c=1	237 ds, and:								
	$\%\mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersted $a=1.00E-02, b=4.87E-08, c=1$	237 ds, and: 1.57, d=0.00 200 Oe								
DC Saturation	$\%\mu_i = \frac{1}{a+b\cdot H^c} + d$ where H expressed in oersted $a=1.00E-02,\ b=4.87E-08,\ c=1$ $H_{DC}$ Percent Initial Perm(nom.)	237 ds, and: !.57, d=0.00 200 Oe 98.1%	y Paint							
DC Saturation	$\%\mu_{i} = \frac{1}{a+b\cdot H^{c}} + d$ where H expressed in oersted a=1.00E-02, b=4.87E-08, c=1 H <sub>DC</sub> Percent Initial Perm(nom.) Percent Initial Perm(min.)	237 ds, and: !.57, d=0.00 200 Oe 98.1% 97.4%	y Paint							
DC Saturation	$\%\mu_i = \frac{1}{a+b\cdot H^c} + d$ where H expressed in oerster $a=1.00E-02,\ b=4.87E-08,\ c=1$ H <sub>DC</sub> Percent Initial Perm(nom.) Percent Initial Perm(min.) Coating Type: Voltage Breakdown (min.)	237 ds, and: !.57, d=0.00 200 Oe 98.1% 97.4% Yellow/Clear Epox 500 Vrms, 60Hz	y Paint							
DC Saturation	$\%\mu_i = \frac{1}{a+b\cdot H^c} + d$ where H expressed in oersted a=1.00E-02, b=4.87E-08, c=1 H <sub>DC</sub> Percent Initial Perm(nom.) Percent Initial Perm(min.) Coating Type: Voltage Breakdown (min.) Limit	237 ds, and: 1.57, d=0.00 200 Oe 98.1% 97.4%  Yellow/Clear Epox 500 Vrms, 60Hz 3 mA, 5 s	y Paint							
	$\%\mu_{i} = \frac{1}{a+b\cdot H^{c}} + d$ where H expressed in oersted a=1.00E-02, b=4.87E-08, c=1 H_{DC} Percent Initial Perm(mon.) Percent Initial Perm(min.) Coating Type: Voltage Breakdown (min.) Limit Package Quantity	237 ds, and: !.57, d=0.00 200 Oe 98.1% 97.4% Yellow/Clear Epox 500 Vrms, 60Hz	y Paint							



Package Quantity 6,00		J PCS/BOX										
Wire Size	AWG	16	18	20	22	24	26	28	30	32	34	36
wire Size	mm	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125
Single	Turns	12	15	20	25	32	41	51	64	81	101	127
Layer	Rdc(Ω)	3.2 m	6.4 m	13.5 m	26.8 m	54.6 m	111.3 m	220.2 m	439.4 m	884.5 m	1.8	3.5
Full	Turns	12	19	29	45	70	108	168	259	401	621	962
Winding	Rdc(Ω)	3.2 m	8.1 m	19.6 m	48.3 m	119.5 m	293.2 m	725.3 m	1.8	4.4	10.8	26.6