



Part Number: T10-10B

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	2.46 mm 2.59 mm	0.097 in 0.102 in										
ID	(nom. - bare core) (min. - after coating)	1.12 mm 0.99 mm	0.044 in 0.039 in										
Ht	(nom. - bare core) (max. - after coating)	1.27 mm 1.40 mm	0.050 in 0.055 in										
Mass	(approximate)	0.02 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.00750 cm ²											
	L _e - Eff. Mag. Path Length	0.560 cm											
	V _e - Eff. Core Volume	0.00420											
	WA - Min. Eff. Window Area	0.00771 cm ²											
	sa - Surface Area	0.265 cm ²											
Inductance	μ _i (reference)	6											
	A _L value (nominal)	1.25 nH/N ²											
	Test Winding	N=25, #40 AWG											
	Frequency	1 MHz											
	Voltage on Agilent 4284A	0.083 V											
Core Loss & Q	A _L tolerance	±5%											
	Core Loss(mW/cm ³)=	$\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$											
	where B _{pk} expressed in gauss, f expressed in hertz, and:	a=4.00E+09, b=3.00E+08, c=2.70E+06, d=8.00E-16											
	Q test winding	N=10, #34 AWG											
	Q frequency	50 MHz											
DC Saturation	Q min on HP4342A	71											
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and:	a=1.00E-02, b=5.54E-09, c=1.69, d=0.00											
	H _{DC}	200 Oe											
	Percent Initial Perm(nom.)	99.6%											
Coating/Pkg	Percent Initial Perm(min.)	99.4%											
	Coating Type:	Parylene C											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
	Limit	3 mA, 5 s											
Winding Table	Package Quantity	250,000 Pcs/Box											
	Wire Size	AWG	34	36	38	40	42	44	#N/A	#N/A	#N/A	#N/A	#N/A
		mm	0.160	0.125	0.100	0.080	0.063	0.050	#N/A	#N/A	#N/A	#N/A	#N/A
	Single Layer	Turns	12	15	19	25	32	40	#N/A	#N/A	#N/A	#N/A	#N/A
		Rdc(Ω)	50.2 m	99.9 m	201.2 m	421.0 m	857.1 m	1.7	#N/A	#N/A	#N/A	#N/A	#N/A
	Full Winding	Turns	12	18	28	44	68	105	#N/A	#N/A	#N/A	#N/A	#N/A
		Rdc(Ω)	50.2 m	119.8 m	296.5 m	741.0 m	1.8	4.5	#N/A	#N/A	#N/A	#N/A	#N/A

