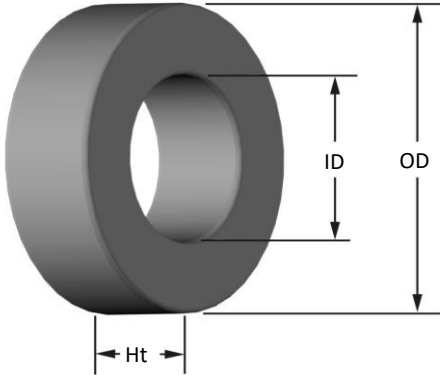




Part Number: **T10-2B**
Revision 20200518 - Generated 2020-May-18



OD	(nom. - bare core)	2.46 mm	0.097 in
	(max. - after coating)	2.59 mm	0.102 in
ID	(nom. - bare core)	1.12 mm	0.044 in
	(min. - after coating)	0.99 mm	0.039 in
Ht	(nom. - bare core)	1.27 mm	0.050 in
	(max. - after coating)	1.40 mm	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	
	mlt - mean length per turn	0.489 cm	
Inductance	μ _i (reference)	10	
	A _i value (nominal)	1.8 nH/N ²	
	Test Winding	N=25, #40 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	0.083 V	
	A _i tolerance	±5%	
Core Loss & Q	Core Loss(mW/cm ³)= $\frac{f}{Bpk^3 + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=4.00E+09, b=3.00E+08, c=2.70E+06, d=9.60E-16		
	Q test winding	N=25, #40 AWG	
	Q frequency	0 kHz	
	Q min on HP4342A	72	
DC Saturation	%μ _i = $\frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.00E-02, b=1.83E-07, c=1.46, d=0.00		
	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	95.9%	
	Percent Initial Perm(min.)	94.8%	
Coating/Plg	Coating Type:	Parylene C over Red/Clear	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	250,000 Pcs/Box	

Winding Table	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	

