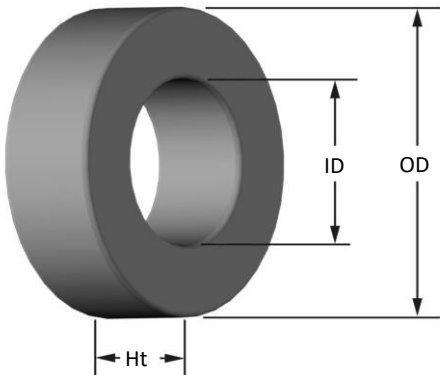




Part Number:

T10-2

Revision 20200518 - Generated 2020-May-18



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)	0.76 mm 0.89 mm	0.030 in 0.035 in										
Mass	(approximate)	0.01 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.00450 cm ²											
	L _e - Eff. Mag. Path Length	0.560 cm											
	V _e - Eff. Core Volume	0.00250											
	W _A - Min. Eff. Window Area	0.00771 cm ²											
	s _a - Surface Area	0.219 cm ²											
Inductance	mlt - mean length per turn	0.387 cm											
	μ(reference)	10											
	A _L value (nominal)	1.35 nH/N ²											
	Test Winding	N=25, #40 AWG											
	Frequency	1 MHz											
Core Loss & Q	Voltage on Agilent 4284A	0.050 V											
	A _L tolerance	±5%											
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B _{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											
DC Saturation	Q frequency	20 MHz											
	Q min on HP4342A	61											
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.00E-02, b=1.83E-07, c=1.46, d=0.00												
	H _{DC}	200 Oe											
Coating/Pkg	Percent Initial Perm.(nom.)	95.9%											
	Percent Initial Perm.(min.)	94.8%											
	Coating Type:	Parylene C over Red/Clear											
	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
	Turns		12	15	19	25	32	40	40	#N/A	#N/A	#N/A	#N/A
	R _{dc} (Ω)		39.8 m	79.1 m	159.4 m	333.5 m	679.0 m	1.3	1.3	#N/A	#N/A	#N/A	#N/A
Turns		12	18	28	44	68	105	105	#N/A	#N/A	#N/A	#N/A	
R _{dc} (Ω)		39.8 m	94.9 m	234.9 m	587.0 m	1.4	3.5	3.5	#N/A	#N/A	#N/A	#N/A	

