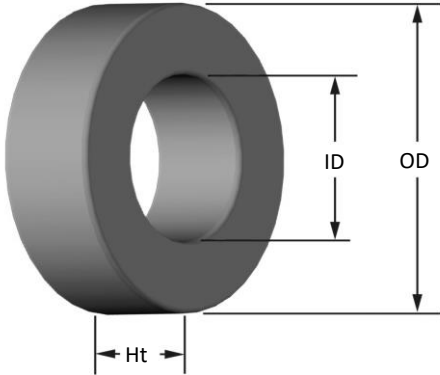




Part Number: **T5-17**
Revision 20200518 - Generated 2020-May-18



OD	(nom. - bare core)	1.27 mm	0.050 in
	(max. - after coating)	1.40 mm	0.055 in
ID	(nom. - bare core)	0.64 mm	0.025 in
	(min. - after coating)	0.51 mm	0.020 in
Ht	(nom. - bare core)	0.64 mm	0.025 in
	(max. - after coating)	0.76 mm	0.030 in
Mass	(approximate)	0.00 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.00190 cm ²	
	L _e - Eff. Mag. Path Length	0.300 cm	
	V _e - Eff. Core Volume	0.00060	
	WA - Min. Eff. Window Area	0.00203 cm ²	
	sa - Surface Area	0.0768 cm ²	
	mlt - mean length per turn	0.267 cm	
Inductance	μ _i (reference)	4	
	A _i value (nominal)	0.42 nH/N ²	
	Test Winding	N=15, #40 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	0.013 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=4.40E-16		
	Q test winding	N=15, #40 AWG	
	Q frequency	70 MHz	
	Q min on HP4342A	36	
DC Saturation	%μ _i = $\frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.00E-02, b=1.34E-08, c=1.55, d=0.00		
	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	99.5%	
	Percent Initial Perm(min.)	99.4%	
Coating/Plg	Coating Type:	Parylene C	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	250,000 Pcs/Box	

Winding Table	Wire Size	AWG	40	42	44	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		mm	0.080	0.063	0.050	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	Single Layer	Turns	11	15	19	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		Rdc(Ω)	101.0 m	219.1 m	441.4 m	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Full Winding	Turns	12	18	28	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
	Rdc(Ω)	110.2 m	263.0 m	650.5 m	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	

