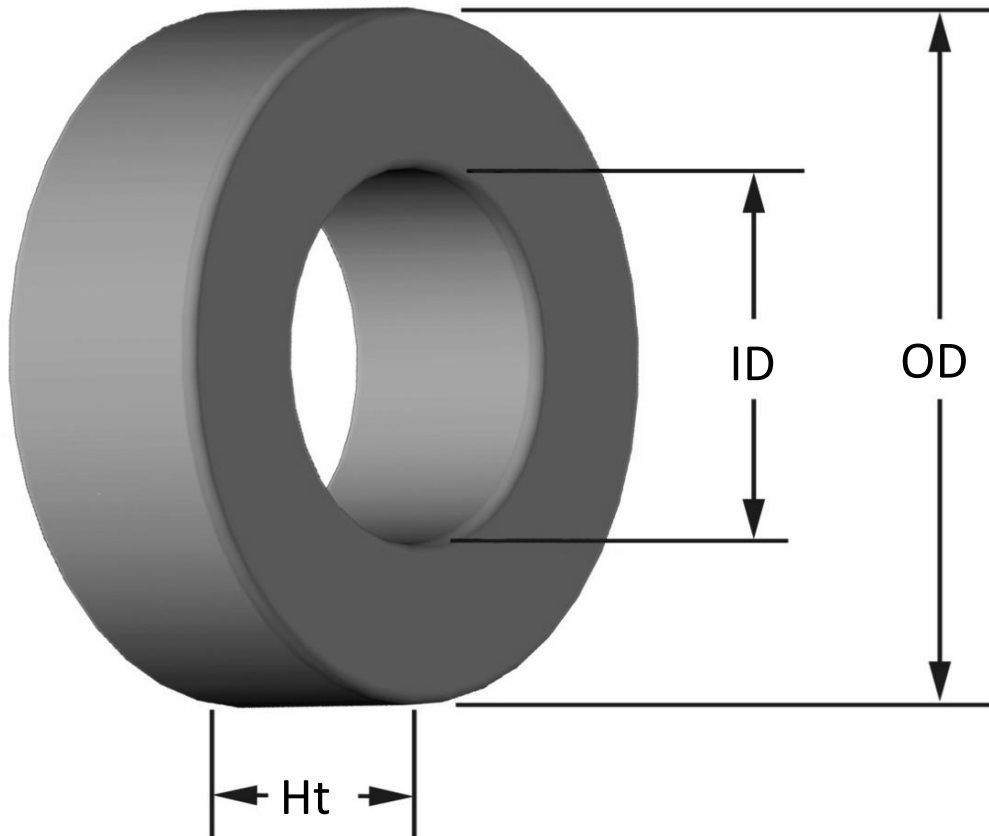




Part Number: T25-6

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	6.48 mm 6.86 mm	0.255 in 0.270 in
ID	(nom. - bare core) (min. - after coating)	3.05 mm 2.67 mm	0.120 in 0.105 in
Ht	(nom. - bare core) (max. - after coating)	2.44 mm 2.95 mm	0.096 in 0.116 in
Mass	(approximate)	0.28 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0370 cm ²	
	L _e - Eff. Mag. Path Length	1.50 cm	
	V _e - Eff. Core Volume	0.0550 cm ³	
	WA - Min. Eff. Window Area	0.0559 cm ²	
	sa - Surface Area	1.68 cm ²	
Inductance	μ _i (reference)	8.5	
	A _L value (nominal)	2.7 nH/N ²	
	Test Winding	N=29, #30 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	0.48 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=8.90E-16	
	Q test winding	N=29, #30 AWG	
	Q frequency	11.5 MHz	
DC Saturation	Q min on HP4342A	152	
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	a=1.00E-02, b=4.87E-08, c=1.57, d=0.00	
	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	98.1%	
Coating/Pkg	Percent Initial Perm(min.)	97.4%	
	Coating Type:	Yellow/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
Winding Table	Package Quantity	20,000 Pcs/Box	
	Wire Size	AWG	24 26 28 30 32 34 36 38 40 42 44
Single Layer	mm	0.500 0.400 0.315 0.250 0.200 0.160 0.125 0.100 0.080 0.063 0.050	
	Turns	10 13 17 22 28 36 45 57 72 90 112	
Full Winding	Rdc(Ω)	9.6 m 19.9 m 41.3 m 85.0 m 172.1 m 351.9 m 699.6 m 1.4 2.8 5.6 11.1	
	Turns	10 15 23 36 55 86 132 205 317 491 760	
Full Winding	Rdc(Ω)	9.6 m 22.9 m 55.9 m 139.1 m 338.1 m 840.7 m 2.1 5.1 12.5 30.7 75.6	

