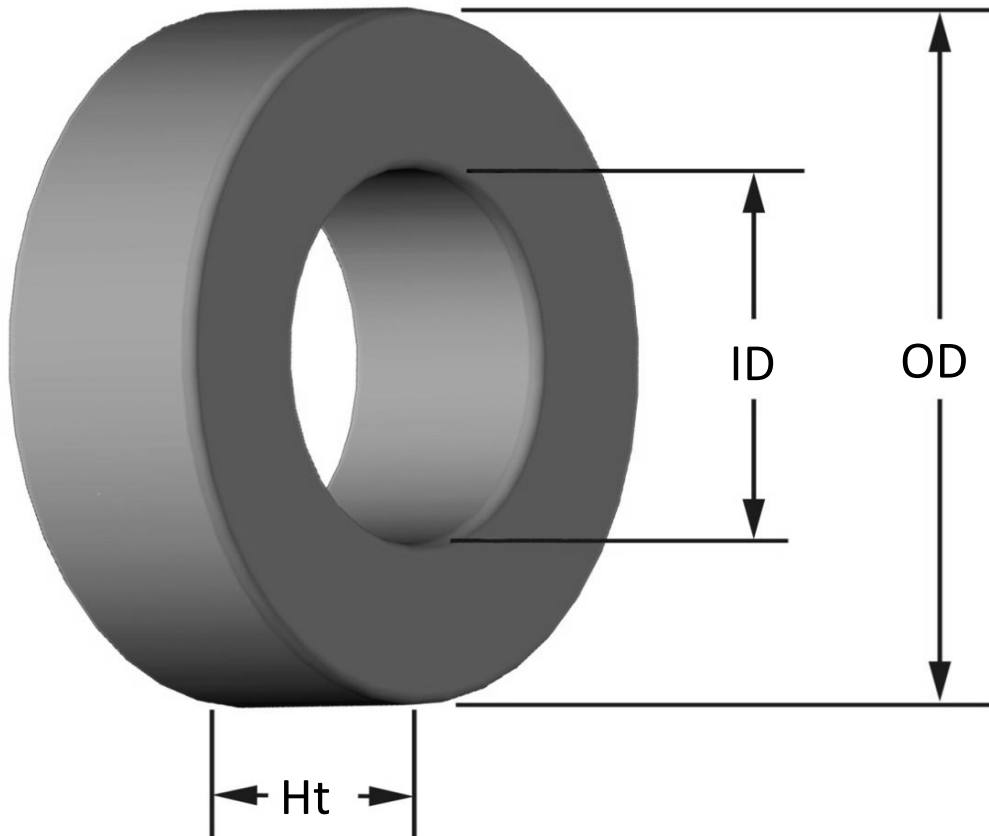




Part Number: T249-52

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	63.50 mm 64.26 mm	2.500 in 2.530 in										
ID	(nom. - bare core) (min. - after coating)	35.69 mm 34.93 mm	1.405 in 1.375 in										
Ht	(nom. - bare core) (max. - after coating)	25.40 mm 26.16 mm	1.000 in 1.030 in										
Mass	(approximate)	370 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	3.36 cm ²											
	L _e - Eff. Mag. Path Length	15.6 cm											
	V _e - Eff. Core Volume	52.3 cm ³											
	WA - Min. Eff. Window Area	9.58 cm ²											
	sa - Surface Area	153 cm ²											
Inductance	μ _i (reference)	75											
	A _L value (nominal)	203 nH/N ²											
	Test Winding	N=100, #24 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	1.5 V											
Core Loss	A _L tolerance	±10%											
	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=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14											
	B _{pk}	140 G											
	frequency	100 kHz											
DC Saturation	Core Loss (nominal)	58 mW/cm ³											
	Core Loss (maximum)	67 mW/cm ³											
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and:	a=1.00E-02, b=4.66E-06, c=1.84, d=0.00											
	H _{DC}	50 Oe											
Coating/Pkg	Percent Initial Perm(nom.)	61.6%											
	Percent Initial Perm(min.)	53.4%											
	Coating Type:	Green/Blue Epoxy Paint											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
Winding Table	Limit	3 mA, 5 s											
	Package Quantity	45 Pcs/Box											
	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer	Turns	27	34	43	54	68	85	107	134	167	209	260
Rdc(Ω)		5.5 m	11.0 m	22.2 m	44.3 m	88.7 m	176.3 m	352.9 m	702.8 m	1.4	2.8	5.5	
Full Winding	Turns	50	78	120	186	288	445	689	1,067	1,651	2,556	3,956	
	Rdc(Ω)	10.2 m	25.3 m	61.9 m	152.5 m	375.5 m	922.8 m	2.3	5.6	13.8	33.9	83.5	

