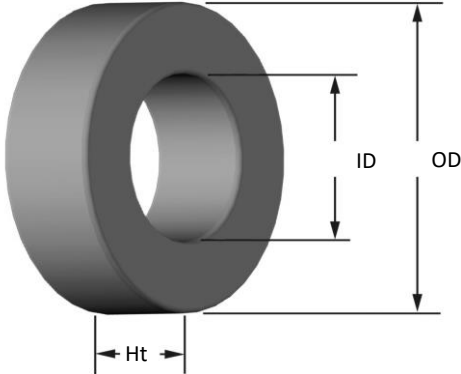




Part Number: T90-26

Revision 2022-Oct-18 - Generated 2022-Oct-18



OD	(nom. - bare core) (max. - including coating, if any)	22.86 mm 23.37 mm	0.900 in 0.920 in
ID	(nom. - bare core) (min. - including coating, if any)	13.97 mm 13.46 mm	0.550 in 0.530 in
HT	(nom. - bare core) (max. - including coating, if any)	9.53 mm 10.16 mm	0.375 in 0.400 in
Mass	(approximate)	16 grams	
Magnetic Dimensions	Ae - Eff. Mag. Cross Section	0.395 cm ²	
	Le - Eff. Mag. Path Length	5.78 cm	
	Ve - Eff. Core Volume	2.28 cm ³	
	WA - Min. Eff. Window Area	1.42 cm ²	
	sa - Surface Area	21.0 cm ²	
	mlt - mean length per turn	3.70 cm	
Inductance	μi (reference)	75	
	AL value (nominal)	70 nH/N ²	
	Test Winding	N=100, #28 AWG	
	Test Frequency	10 kHz	
	Voltage on Agilent 4284A	0.18 V	
	AL tolerance	±10%	
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.00E+09, b=1.10E+08, c=1.90E+06, d=1.90E-13		
	B _{pk}	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	83 mW/cm ³	
Core Loss (maximum)	95 mW/cm ³		
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.00E-02, b=9.70E-06, c=1.72, d=0.00		
	H _{dc}	50 Oe	
	Percent Initial Perm (nom.)	55.2%	
Percent Initial Perm (min.)	47.4%		
Coating/Pkg	Coating Type:	Yellow/White Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	1,000 Pcs/Box	

Winding Table	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	11	15	19	25	31	39	50	63	79	99	123
		Rdc(Ω)	1.3 m	2.9 m	5.8 m	12.2 m	24.0 m	48.0 m	97.8 m	195.9 m	390.7 m	778.8 m	1.5
Full Winding	Turns	12	18	28	43	66	102	159	245	380	588	910	
	Rdc(Ω)	1.5 m	3.5 m	8.6 m	20.9 m	51.0 m	125.4 m	310.9 m	762.0 m	1.9	4.6	11.4	

