



Part Number: **T38-26**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	9.53 mm 9.91 mm	0.375 in 0.390 in
ID	(nom. - bare core) (min. - after coating)	4.45 mm 4.06 mm	0.175 in 0.160 in
Ht	(nom. - bare core) (max. - after coating)	4.83 mm 5.33 mm	0.190 in 0.210 in
Mass	(approximate)	1.7 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.114 cm ²	
	L _e - Eff. Mag. Path Length	2.18 cm	
	V _e - Eff. Core Volume	0.248 cm ³	
	WA - Min. Eff. Window Area	0.130 cm ²	
	sa - Surface Area	3.91 cm ²	
	mlt - mean length per turn	1.85 cm	
Inductance	μ _i (reference)	75	
	A _L value (nominal)	49 nH/N ²	
	Test Winding	N=50, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.025 V	
	A _L 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	10,000 Pcs/Box	

Winding Table	Wire Size	AWG	20	22	24	26	28	30	32	34	36	38	40
		mm	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080
	Single Layer	Turns	10	13	17	22	28	35	45	56	70	88	111
		Rdc(Ω)	6.2 m	12.8 m	26.5 m	54.6 m	110.5 m	219.7 m	449.2 m	889.1 m	1.8	3.5	7.1
Full Winding	Turns	9	14	22	35	54	83	128	199	307	476	736	
	Rdc(Ω)	5.6 m	13.7 m	34.3 m	86.9 m	213.1 m	521.0 m	1.3	3.2	7.8	19.1	47.0	

