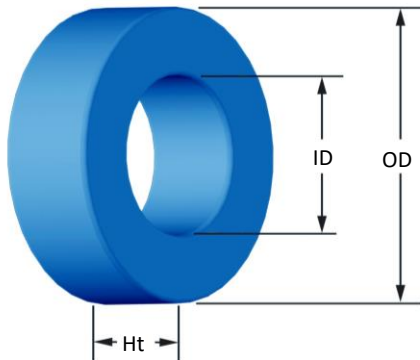




Part Number:

MS-050026-2H095

Revision 2021-Dec-01 - Generated 2021-Dec-01



(If coated, Max./Min. includes coating)

OD	(nom. - bare core) (max.)	12.70 mm 13.46 mm	0.500 in 0.530 in
ID	(nom. - bare core) (min.)	7.62 mm 6.99 mm	0.300 in 0.275 in
HT	(nom. - bare core) (max.)	9.50 mm 10.26 mm	0.374 in 0.404 in
Mass	(approximate)	3.6 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.228 cm ²	
	L_e - Eff. Mag. Path Length	3.12 cm	
	V_e - Eff. Core Volume	0.712 cm ³	
	W_A - Min. Eff. Window Area	0.384 cm ²	
	S_a - Surface Area	8.94 cm ²	
Inductance	μ_i (reference)	26	
	A_L value (nominal)	24 nH/N ²	
	Test Winding	N=50, #28 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.051 V	
Core Loss	AL tolerance	±8%	
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.000E+06$, $b=4.969E+08$, $c=3.993E+06$, $d=2.867E-14$		
	B_{pk}	500 G	
	frequency	100 kHz	
DC Saturation	Core Loss (nominal)	295 mW/cm ³	
	Core Loss (maximum)	339 mW/cm ³	
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.000E-02$, $b=2.061E-07$, $c=1.995$, $d=0.000$		
	H_{DC}	200 Oe	
Coating/Pkg	Percent Initial Perm(nom.)	55.4%	
	Percent Initial Perm(min.)	46.3%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	2,700 Pcs/Box	
	Wire Size	AWG	16
		mm	1.250
Single Layer	Turns	11	15
	Rdc(Ω)	4.4 m	9.6 m
	Turns	12	18
	Rdc(Ω)	4.8 m	11.5 m
Full Winding	Turns	19	24
	Rdc(Ω)	19.3 m	38.7 m
	Turns	28	43
	Rdc(Ω)	28.4 m	69.4 m
	Turns	31	39
	Rdc(Ω)	79.5 m	159.1 m
	Turns	66	102
	Rdc(Ω)	169.3 m	416.2 m
	Turns	79	50
	Rdc(Ω)	324.4 m	650.1 m
	Turns	158	245
	Rdc(Ω)	1.0	2.5
	Turns	380	587
	Rdc(Ω)	6.2	15.3
	Turns	909	37.7
	Rdc(Ω)	37.7	37.7

