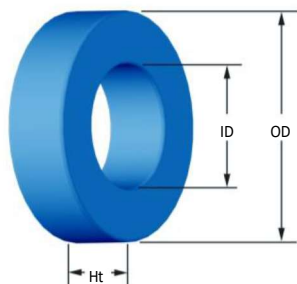


4.000 in./101.6 mm OD Toroid



Typical Part Number: MS - 400 125 - 2

Material Type → MS
 OD in 100th inches → 400
 Reference Permeability → 125
 Finish → 2
 Area for Special Height (in XX.Xmm) →

Physical Dimensions

OD	Bare Core Nominal	101.6 mm	4.000 in
	Coated Core (max)	102.87 mm	4.050 in
ID	Bare Core Nominal	57.15 mm	2.250 in
	Coated Core (min)	55.75 mm	2.195 in
Ht	Bare Core Nominal	16.51 mm	0.650 in
	Coated Core (max)	17.78 mm	0.700 in

Magnetic Dimensions

Ae	Effective Magnetic Cross Section	3.52 cm ²
Le	Effective Magnetic Path Length	24.271 cm
Ve	Effective Core Volume	85.5 cm ³
WA	Minimum Effective Window Area	24.4 cm ²
SA	Surface Area	303 cm ²
MLT	Mean Length Per Turn	11.1 cm

Permeability Part Numbers

Reference Perm.	A _L Value (nH/N ²)	MS Sendust	SH High Frequency Sendust	MP Molypermalloy	Hi-Flux™ HF Nickel Iron	FluxSan™ FS Silicon Iron	Optilloy™ Material Series*		
							OC Optimized Core Loss	OD Optimized DC Bias	OE Optimized Economy
14μ	25.6	MS-400014-2		MP-400014-2	HF-400014-2	FS-400014-2			
26μ	47.4	MS-400026-2	SH-400026-2	MP-400026-2	HF-400026-2	FS-400026-2	OC-400026-2	OD-400026-2	OE-400026-2
40μ	75	MS-400040-2				FS-400040-2			
60μ	112	MS-400060-2	SH-400060-2	MP-400060-2	HF-400060-2	FS-400060-2	OC-400060-2	OD-400060-2	OE-400060-2
75μ	137	MS-400075-2				FS-400075-2			
90μ	164	MS-400090-2				FS-400090-2	OC-400090-2	OD-400090-2	OE-400090-2
125μ	228	MS-400125-2	SH-400125-2	MP-400125-2	HF-400125-2		OC-400125-2		
147μ	268	MS-400147-2		MP-400147-2	HF-400147-2				
160μ	282	MS-400160-2		MP-400160-2					
173μ	316			MP-400173-2					
205μ	N/A								
Approx. Unit Weight:		490 g	480 g	640 g	590 g	580 g	570 g	570 g	570 g

*OP Material is available, further details listed on website

Test Conditions

Winding	N=140, #18 AWG
Frequency	10 kHz
Voltage	2.2 V
A_L Tolerance	±8%

Coating/Packaging Information

Coating Type	Blue Epoxy
Voltage Breakdown	1000 Vrms
Limit	0.1 mA, 5 s
Package Quantity	16 Pcs/Box

Winding Table

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	44	56	70	88	110	138	172	215	268	335	417
	Rdc(Ω)	10.0 m	20.2 m	40.2 m	80.5 m	160.0 m	319.2 m	632.7 m	1.3	2.5	5.0	9.8
Full Winding	Turns	128	198	306	474	733	1,135	1,756	2,719	4,208	6,512	10,079
	Rdc(Ω)	29.1 m	71.6 m	175.9 m	433.4 m	1.1	2.6	6.5	15.9	39.1	96.4	237.2