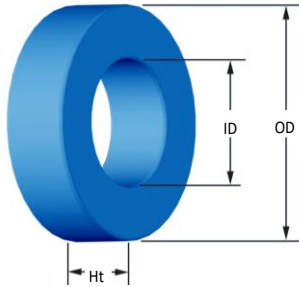


5.218 in./132.54 mm OD Toroid



Typical Part Number:	MS - 520 125 - 2
Material Type	↑
OD in 100th inches	↑
Reference Permeability	↑
Finish	↑
Area for Special Height (in XX.Xmm)	↑

Physical Dimensions

OD	Bare Core Nominal	132.54 mm	5.218 in
	Coated Core (max)	134.21 mm	5.284 in
ID	Bare Core Nominal	78.59 mm	3.094 in
	Coated Core (min)	77.04 mm	3.033 in
Ht	Bare Core Nominal	20.32 mm	0.800 in
	Coated Core (max)	21.72 mm	0.855 in

Magnetic Dimensions

Ae	Effective Magnetic Cross Section	5.35 cm ²
Le	Effective Magnetic Path Length	32.429 cm
Ve	Effective Core Volume	173 cm ³
WA	Minimum Effective Window Area	46.6 cm ²
SA	Surface Area	515 cm ²
MLT	Mean Length Per Turn	13.9 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	26	MS-520014-2		MP-520014-2	HF-520014-2	FS-520014-2			
26μ	54	MS-520026-2		MP-520026-2	HF-520026-2	FS-520026-2	OC-520026-2	OD-520026-2	OE-520026-2
40μ	83	MS-520040-2				FS-520040-2			
60μ	124	MS-520060-2		MP-520060-2	HF-520060-2	FS-520060-2	OC-520060-2	OD-520060-2	OE-520060-2
75μ	155	MS-520075-2				FS-520075-2			
90μ	187	MS-520090-2							
125μ	259	MS-520125-2		MP-520125-2	HF-520125-2				
147μ	304			MP-520147-2	HF-520147-2				
160μ	332			MP-520160-2					
173μ	358			MP-520173-2					
205μ	N/A								
Approx. Unit Weight:		1,000 g	970 g	1,290 g	1,190 g	1,180 g	1,150 g	1,150 g	1,150 g

*OP Material is available, further details listed on website

Test Conditions

Winding	N=200, #18 AWG
Frequency	10 kHz
Voltage	4.7 V
A_L Tolerance	±8%

Coating/Packaging Information

Coating Type	Blue Epoxy
Voltage Breakdown	1000 Vrms
Limit	0.1 mA, 5 s
Package Quantity	4 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	62	78	98	123	154	192	239	298	372	463	577
	Rdc(Ω)	17.7 m	35.5 m	70.9 m	141.5 m	281.8 m	558.8 m	1.1	2.2	4.4	8.6	17.1
Full Winding	Turns	244	378	584	905	1,400	2,167	3,354	5,191	8,035	12,436	19,248
	Rdc(Ω)	69.8 m	172.0 m	422.6 m	1.0	2.6	6.3	15.5	38.2	94.1	231.6	570.0