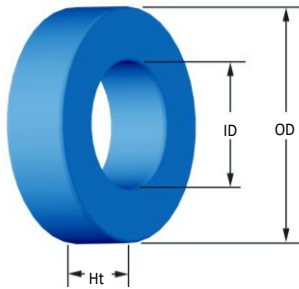


# 1.350 in./34.29 mm OD Toroid



**Typical Part Number:** **MS - 135 125 - 2**

Material Type → MS  
 OD in 100th inches → 135  
 Reference Permeability → 125  
 Finish → -  
 Area for Special Height (in XX.Xmm) → 2

## Physical Dimensions

OD	Bare Core Nominal	34.29 mm	1.350 in
	Coated Core (max)	35.1 mm	1.382 in
ID	Bare Core Nominal	23.37 mm	0.920 in
	Coated Core (min)	22.56 mm	0.888 in
Ht	Bare Core Nominal	8.89 mm	0.350 in
	Coated Core (max)	9.83 mm	0.387 in

## Magnetic Dimensions

<b>Ae</b>	Effective Magnetic Cross Section	0.454 cm <sup>2</sup>
<b>Le</b>	Effective Magnetic Path Length	8.95 cm
<b>Ve</b>	Effective Core Volume	4.06 cm <sup>3</sup>
<b>WA</b>	Minimum Effective Window Area	4.00 cm <sup>2</sup>
<b>SA</b>	Surface Area	41.4 cm <sup>2</sup>
<b>MLT</b>	Mean Length Per Turn	4.35 cm

## Permeability Part Numbers

Reference Perm.	A <sub>L</sub> Value (nH/N <sup>2</sup> )	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	9	MS-135014-2		MP-135014-2	HF-135014-2	FS-135014-2			
26μ	16	MS-135026-2	SH-135026-2	MP-135026-2	HF-135026-2	FS-135026-2	OC-135026-2	OD-135026-2	OE-135026-2
40μ	25	MS-135040-2				FS-135040-2			
60μ	38	MS-135060-2	SH-135060-2	MP-135060-2	HF-135060-2	FS-135060-2	OC-135060-2	OD-135060-2	OE-135060-2
75μ	47	MS-135075-2				FS-135075-2			
90μ	56	MS-135090-2				FS-135090-2	OC-135090-2	OD-135090-2	OE-135090-2
125μ	79	MS-135125-2	SH-135125-2	MP-135125-2	HF-135125-2		OC-135125-2		
147μ	93	MS-135147-2		MP-135147-2	HF-135147-2				
160μ	101	MS-135160-2		MP-135160-2	HF-135160-2				
173μ	109			MP-135173-2					
205μ	130			MP-135205-2					
Approx. Unit Weight:		23 g	23 g	30 g	28 g	28 g	27 g	27 g	27 g

\*OP Material is available, further details listed on website

## Test Conditions

<b>Winding</b>	N=90, #22 AWG
<b>Frequency</b>	10 kHz
<b>Voltage</b>	0.18 V
<b>A<sub>L</sub> Tolerance</b>	±8%

## Coating/Packaging Information

<b>Coating Type</b>	Blue Epoxy
<b>Voltage Breakdown</b>	1000 Vrms
<b>Limit</b>	0.1 mA, 5 s
<b>Package Quantity</b>	441 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	16	21	27	34	43	54	68	85	107	134	167
	Rdc(Ω)	1.4 m	3.0 m	6.1 m	12.2 m	24.6 m	49.1 m	98.4 m	195.6 m	391.5 m	779.8 m	1.5
Full Winding	Turns	21	32	50	78	120	186	288	445	689	1,066	1,651
	Rdc(Ω)	1.9 m	4.5 m	11.3 m	28.1 m	68.6 m	169.2 m	416.6 m	1.0	2.5	6.2	15.3