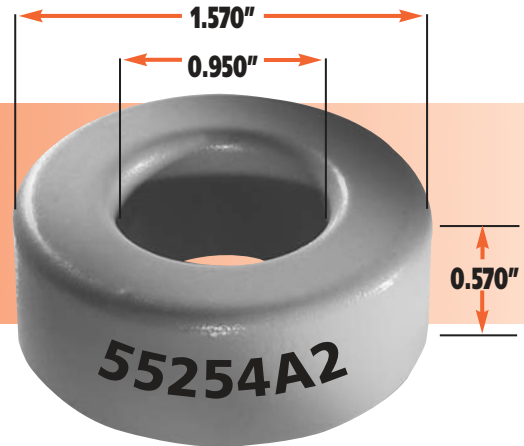


# 39.9 mm O.D.

## 24.1 mm I.D. x 14.5 mm HT.



### Core Dimensions (after finish)

O.D. (max.)	40.8 mm	1.605 in
I.D. (min.)	23.3 mm	0.918 in
HT. (max.)	15.37 mm	0.605 in

Permeability ( $\mu$ )	$A_L \pm 8\%$	Part Number			Nominal DC Resistance Ohms/mH*	B/MI Gauss per Amp. Turn*
		MPP	High Flux	Kool M $\mu$		
14	19	55257	58257	-	0.203	1.79 (<1500 gauss)
26	35	55256	58256	77256	0.11	3.33 (<1500 gauss)
60	81	55083	58083	77083	0.0477	7.68 (<1500 gauss)
75	101	-	-	77259	-	-
90	121	-	-	77258	-	-
125	168	55254	58254	77254	0.023	16 (<1500 gauss)
160	215	55252	58252	-	0.0179	20.5 (<1500 gauss)
200	269	55251	-	-	0.0143	25.6 (<600 gauss)
300	403	55249	-	-	0.0095	38.4 (<300 gauss)
550	740	55250	-	-	0.0052	70.4 (<50 gauss)

### Physical Characteristics

Window Area	4.27 cm <sup>2</sup>	842,700 c.mils
Cross Section	1.072 cm <sup>2</sup>	0.1662 in <sup>2</sup>
Path Length	9.84 cm	3.88 in
Volume	10.5 cm <sup>3</sup>	0.645 in <sup>3</sup>
Weight- MPP	91.7 gm	0.206 lb
Weight- High Flux	86.5 gm	0.194 lb
Weight- Kool M $\mu$	64.9 gm	0.143 lb
Area Product	4.58 cm <sup>4</sup>	0.1100 in <sup>4</sup>

### Winding Turn Length

WINDING FACTOR	LENGTH/TURN	
100% (Unity)	7.38 cm	0.242 ft
60%	6.38 cm	0.209 ft
40%	5.40 cm	0.1772 ft
20%	4.97 cm	0.1631 ft
0%	4.81 cm	0.1578 ft

### Wound Coil Dimensions

Max. O.D. (u.w.f.)	56.4 mm	2.22 in
Max. HT. (u.w.f.)	35.2 mm	1.385 in

### Surface Area

Unwound Core	48.4 cm <sup>2</sup>	7.5 in <sup>2</sup>
40% Winding Factor	71.7 cm <sup>2</sup>	11.1 in <sup>2</sup>

AWG Wire Size	Turns (u.w.f.)	Rdc (Ohms, $\Omega$ ) (u.w.f.)	Single Layer Turns	Single Layer Rdc. (Ohms, $\Omega$ )
8	47	0.00714	18	0.00179
9	59	0.01123	21	0.00263
10	73	0.01774	24	0.00378
11	92	0.0281	27	0.00537
12	115	0.0444	31	0.00778
13	144	0.0698	35	0.0111
14	180	0.1099	39	0.0155
15	224	0.1726	44	0.0221
16	281	0.273	50	0.0317
17	348	0.426	56	0.0446
18	434	0.672	63	0.0636
19	540	1.053	71	0.0902
20	674	1.653	80	0.128
21	843	2.61	90	0.182
22	1040	4.08	101	0.259
23	1297	6.37	112	0.359
24	1605	9.99	126	0.511
25	1983	15.55	141	0.721
26	2479	24.6	158	1.02
27	3121	38.8	175	1.42

\* These values are only applicable for MPP Cores.