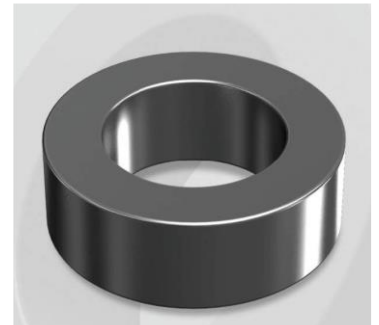


# HS270090G

## Electrical Characteristics

Material	Permeability ( $\mu$ )	AL $\pm$ 8% (nH/N <sup>2</sup> )	DCB (% , min) @ 60 Oe	Coreloss (mW/cm <sup>2</sup> , max) @50kHz, 1000G
HS	90	113	61.64	300

OD : 270



## Core Dimensions

Dimensions		Uncoated		Coated		Color	Packaging
		(mm)	(inch)	(mm)	(inch)		
OD	(Max)	26.92	1.060	27.70	1.090	Black	Box Qty = 360 pcs
ID	(min)	14.73	0.580	14.10	0.555		
HT	(max)	11.18	0.440	11.99	0.472		

## Physical Characteristics

Cross Section (A)	Path Length ( $l$ )	Window Area (Wa)	Volume (V)	Breakdown Voltage (Vac)
0.654 cm <sup>2</sup>	6.35 cm	1.56 cm <sup>2</sup>	4.154 cm <sup>3</sup>	1,000
0.1014 in <sup>2</sup>	2.50 in	308,000 cmil	0.2536 in <sup>3</sup>	

## Winding Information

AWG Wire No. Dia. (cm)	Single Layer Turn Rdc. ( $\Omega$ )	AWG Wire No. Dia. (cm)	Single Layer Turn Rdc. ( $\Omega$ )	Winding length/turn (cm)
28 0.0366	9 0.0237	37 0.0140	27 0.363	3.758
29 0.0330	10 0.0314	38 0.0124	30 0.503	
30 0.0294	11 0.0431	39 0.0199	35 0.727	40% winding factor Surface Area (cm <sup>2</sup> )
31 0.0267	13 0.0581	40 0.0096	40 1.02	
32 0.0241	14 0.0768	41 0.00863	44 1.37	34.42
33 0.0216	16 0.1050	42 0.00762	50 1.90	
34 0.0191	19 0.1460	43 0.00685	56 2.67	40% Wound Di.(mm)
35 0.0170	21 0.2000	44 0.00635	60 3.45	
36 0.0152	24 0.2720			OD ID HT
				31.16 9.226 16.16

## Typical DC Bias Performance

