

23-Jun-25		Optilloy-CL		OC-050125-2H057-MY105P5					
Test Sample Part Number		OC-050125-2H057		Powder Parameter		Measured Value		Limit	
				Apparent Density		g/cm³		>2.0 g/cm³	
				Moisture Content		%		Reference Only	
Outside Diameter		0.500 in							
Inside Diameter		0.300 in							
Height		0.225 in							
Radius		0.031 in							
Ae		0.139 cm ²							
le		3.124 cm							
Ve		0.435 cm ³							
μ		125							
A _L		70.0 mH/1000							
Core Test Data									
Test Winding		22 AWG							
Electrical Test Sample		1		2		3		Limits	
Height		in		in		in		Reference Only	
A _L Grade (%)		-4.90 %		-4.32 %		-5.40 %		±8%	
N = 50									
H (Oe dc)	I (A dc)	L (μH)	% L	L (μH)	% L	L (μH)	% L		
0	0.0	166.43	100.00	167.44	100.00	165.56	100.00	%L Minimum	
20	1.0	157.22	94.5	157.13	93.8	157.18	94.9		
40	2.0	123.23	74.0	123.11	73.5	122.87	74.2	67.2 %	
60	3.0	89.17	53.6	88.97	53.1	88.68	53.6		
80	4.0	64.71	38.9	64.48	38.5	64.19	38.8		
100	5.0	47.20	28.4	47.01	28.1	46.75	28.2		
N = 50									
Power Loss		0.100 W		0.097 W		0.095 W		Maximum Loss Density	
Loss Density		230 mW/cm ³		223 mW/cm ³		218 mW/cm ³		249 mW/cm³	
Frequency		50 kHz		50 kHz		50 kHz			
Flux Density		1000 G		1000 G		1000 G			
Voltage		15.43 V rms		15.43 V rms		15.43 V rms			
Sample No.		1		2		3		Spec Minimum	
Tensile Strength		0 kg		0 kg		0 kg		17 kg	
Coating Adhesion ASTM Level								4B	
Hi-Pot		Pass		Pass		Pass		If applicable	
								If applicable	

We certify that this shipment of powder core meets all pertinent specifications including core loss, DC Bias and inductance.

Arnold soft magnetic powder cores and assemblies are ROHS and REACH compliant and are Deca-BDE free-SGS reports are available in our catalog or on our website or available upon request.

Quality **24-Jun-25**

Date