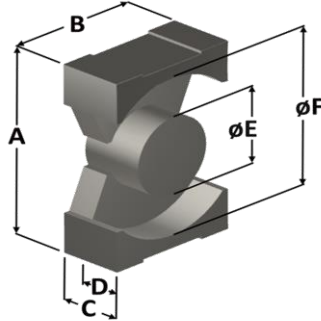


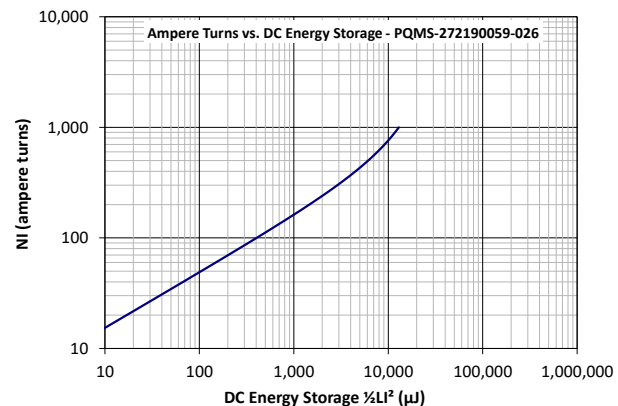
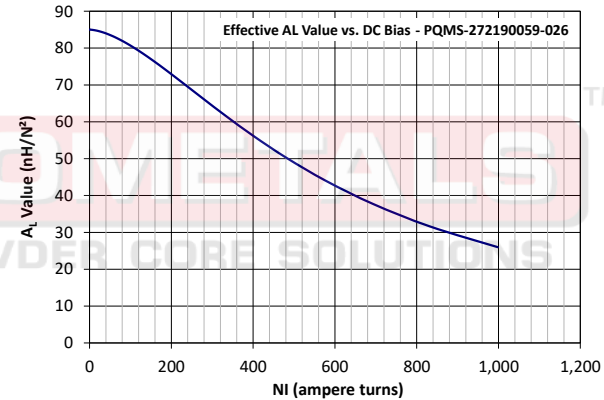
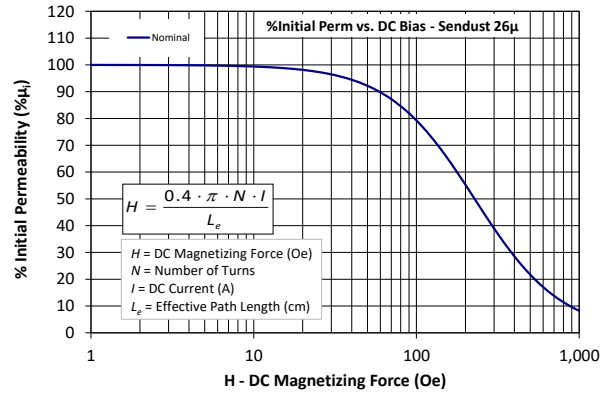
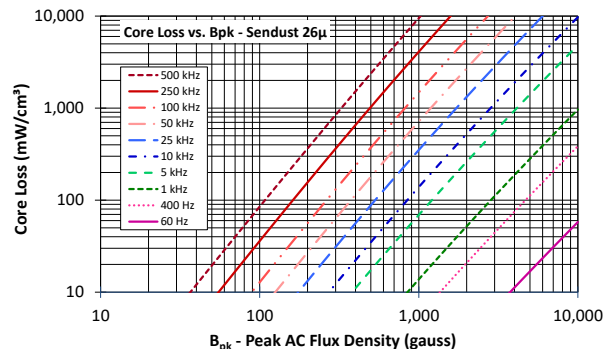


Part Number: PQMS-272190059-026

Revision: 2023-Dec-06



A	27.20 ± 0.46 mm		1.071 ± 0.018 in			
B	19.00 ± 0.46 mm		0.748 ± 0.018 in			
C	5.940 ± 0.203 mm		0.234 ± 0.008 in			
D	3.400 mm (min.)		0.134 in (min.)			
E	12.00 ± 0.46 mm		0.472 ± 0.018 in			
F	22.05 mm (min.)		0.868 in (min.)			
Mass	(approximate)		7.1 grams/half			
Magnetic Dimensions	A_e - Eff. Mag. Cross Section		0.864 cm ²			
	L_e - Eff. Mag. Path Length		3.33 cm			
	V_e - Eff. Core Volume		2.88 cm ³			
	W_A - Min. Eff. Window Area		0.326 cm ²			
	s_a - Surface Area		21.8 cm ²			
	mlt - mean length per turn		5.35 cm			
Inductance	μ_i (reference)		26			
	A_L value (nominal)		85 nH/N ²			
	Test Winding		N=10, #26 AWG			
	Frequency		10 kHz			
	Voltage on Agilent 4284A		0.038 V			
	A_L tolerance		±12%			
Core Loss	$\text{Core Loss(mW/cm}^3\text{)}= \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$					
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.000E+06$, $b=2.690E+08$, $c=3.455E+06$, $d=1.045E-14$					
	B_{pk}	500	G			
	frequency	100 k	Hz			
	Core Loss (nominal)	373	mW/cm ³			
	Core Loss (maximum)	429	mW/cm ³			
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$					
	where H expressed in oersteds, and: $a=1.000E-02$, $b=1.443E-06$, $c=1.629$, $d=0.000$					
	H_{DC}	200	Oe			
	Percent Initial Perm.(nom.)	55.3	%			
	Percent Initial Perm.(min.)	47.9	%			
Coating/Pkg	Coating Type:		None			
	Voltage Breakdown (min.)		N/A			
	Limit		N/A			
	Package Quantity		560 Halves/Box			
Winding Table	Wire Size	AWG	18	20	22	
		mm	1.000	0.800	0.630	
	Full Winding	Turns	16	24	37	
		Rdc(Ω)	17.9 m	42.7 m	104.7 m	



Handling and Storage: Cores should be stored in the original unopened packaging between -10°C and +50°C and less than 60% relative humidity. After the original packaging is opened, the cores should be stored between -8°C and +25°C less than 30% relative humidity. Gloves should be used when handling uncoated cores. The cores should also be sheltered from rain, moisture, salt water, salt air, plasters, ashes, sulfur, sulfur dioxide, ammonia sulfates, soils, acids, metals shavings, and solvents.

Operating Temperature: Cores can be used continuously at operating temperatures between -60°C and +200°C.

RoHS 2.0, REACH and ISO (TS16949, ISO 9001, ISO 14001) compliant. Statements available for download at www.micrometalsapc.com.

Micrometals Alloy Powder Cores, A Division of Micrometals, Inc. - 5615 E. La Palma Ave., Anaheim, California 92807 USA

Ph: +1-714-970-9400, Toll Free in USA: +1-800-356-5977, Asia Pacific Sales: +852 3106 3736

www.Micrometals.com