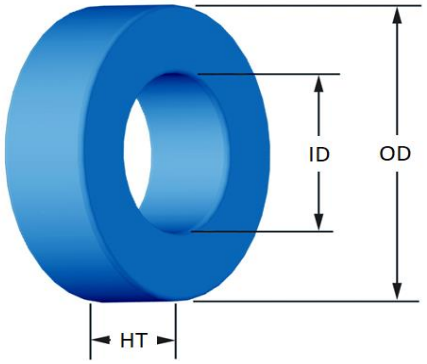
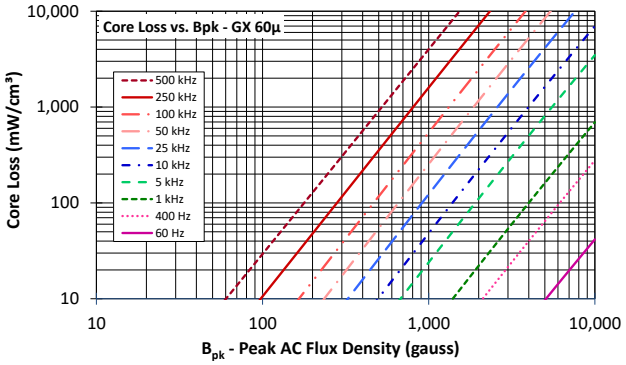
MICROMETALS™
POWDER CORE SOLUTIONS

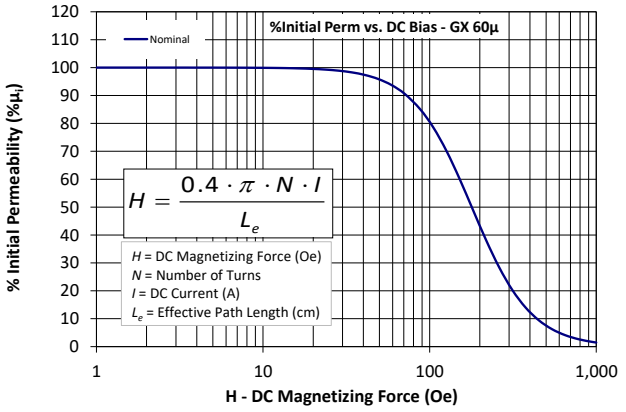
Part Number:	GX-132060-2

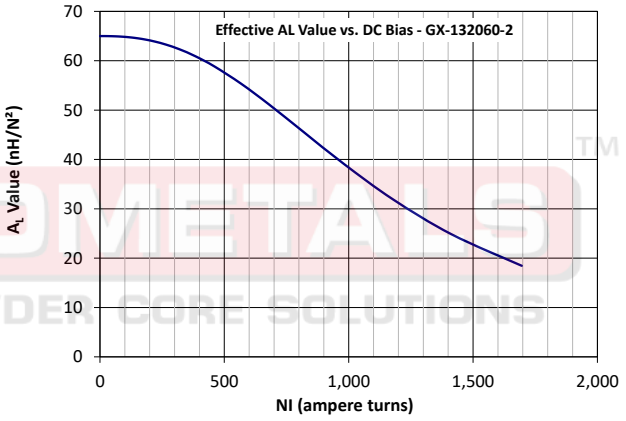
Revision: 2023-Dec-06

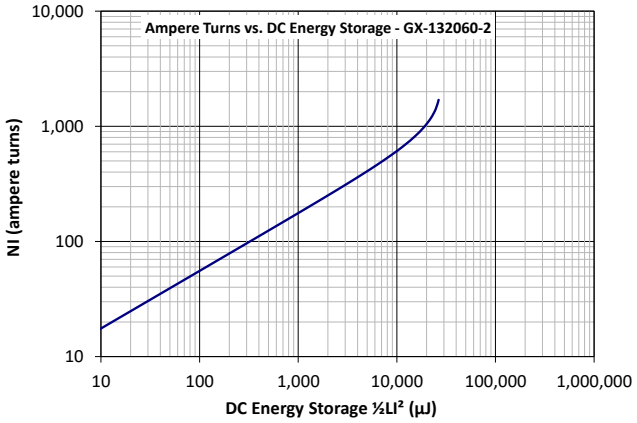


(If coated, Max./Min. includes coating)		mm	in
OD	(nom. - bare core)	33.02	1.300
	(max.)	33.83	1.332
ID	(nom. - bare core)	19.94	0.785
	(min.)	19.30	0.760
HT	(nom. - bare core)	11.18	0.440
	(max.)	11.99	0.472
Mass	(approximate)	43	grams
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.698	cm^2
	L_e - Eff. Mag. Path Length	8.15	cm
	V_e - Eff. Core Volume	5.69	cm^3
	WA - Min. Eff. Window Area	2.93	cm^2
	sa - Surface Area	40.6	cm^2
	mlt - mean length per turn	4.82	cm
Inductance	μ_i(reference)	60	
	A_L value (nominal)	65	nH/N^2
	Test Winding	70 Turns	AWG# 22
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.22	V
	AL tolerance	±8%	
Core Loss	Core Loss$(mW/cm^3)=\frac{f}{\frac{a}{Bpk^3}+\frac{b}{Bpk^{2.3}}+\frac{c}{Bpk^{1.65}}}+d\cdot Bpk^2\cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and:		
	a=7.314E+06, b=1.490E+09, c=2.002E+06, d=6.519E-15		
	B_{pk}	1000	G
	frequency	50 k	Hz
	Core Loss (nominal)	254	mW/cm^3
	Core Loss (maximum)	292	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=3.174E-08, c=2.441, d=0.000		
	H_{DC}	150	Oe
	Percent Initial Perm(nom.)	60.6	%
	Percent Initial Perm(min.)	49.7	%
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	336 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	14	18	22	29	36	46	58	73	91	114	142
		Rdc(Ω)	1.4 m	2.8 m	5.5 m	11.6 m	22.8 m	46.3 m	92.9 m	186.0 m	368.8 m	734.8 m	1.5
	Full Winding	Turns	15	24	37	57	88	136	211	326	504	780	1,208
		Rdc(Ω)	1.5 m	3.8 m	9.3 m	22.7 m	55.7 m	137.0 m	338.1 m	830.8 m	2.0	5.0	12.4