



Magnetics XFLUX™ cores

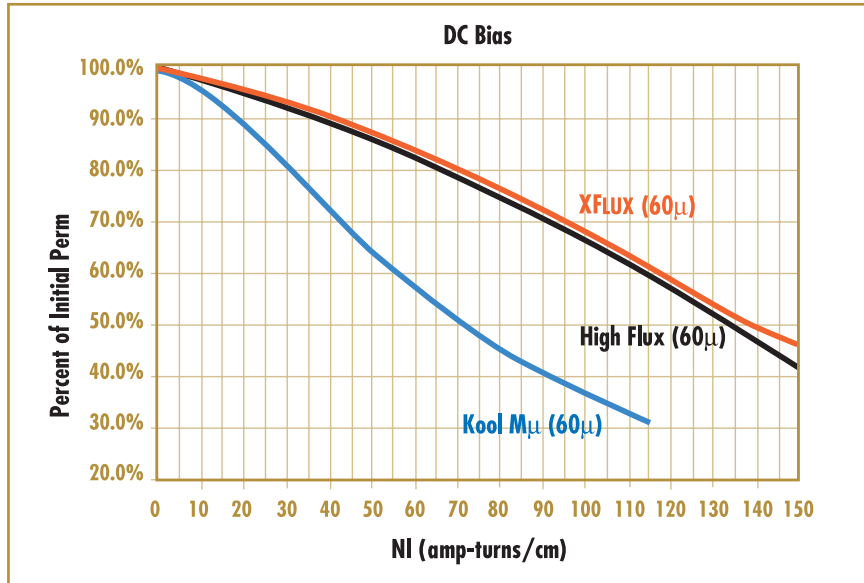
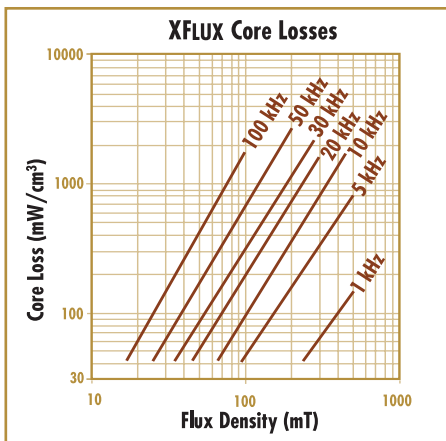
6.5 SiFe cores for high current applications.

Material Properties

Composition	6.5 SiFe alloy
Saturation Flux Density	1.6 Tesla
Typical Core Loss (50kHz, 100mT)	650 mw/cm ³
Curie Temperature	700°C
Operating Temperature	-30°C to 200°C
DC Bias (80%) amp-turns/cm	60 min
DC Bias (50%) amp-turns/cm	120 min

Material Comparison

Core Materials	Core Loss	Perm vs. DC Bias	Relative Cost	Frequency Limit	Saturation Flux Density (Tesla)	Temp. Stability
XFLUX	Medium	Best	Medium	1.0 MHz	1.6	Best
MPP	Lowest	Better	Highest	2.7 MHz	.75	Best
High Flux	Medium	Best	High	1.2 MHz	1.5	Better
Kool M μ ®	Low	Good	Low	8.0 MHz	1.05	Moderate
Powdered Iron	High	Better	Lowest	1.0 MHz	1.2 - 1.5	Poor
Ferrite	Lowest	Poor	Low	1.0 MHz	.45	Poor



PART NUMBER	Permeability	A _L ± 8% (nH/T²)	Dimensions (after finish)			Magnetic Data				
			OD (mm) max	ID (mm) min	HT (mm) max	W _a (mm²)	l _e (mm)	A _e (mm²)	V _e (mm³)	Weight (grams)
78051A7	60	27	13.46	6.99	5.51	38.30	31.20	11.40	356	2.54
78121A7	60	35	17.40	9.53	7.11	71.30	41.10	19.20	789	5.55
78381A7	60	43	18.03	9.02	7.11	57.60	41.40	23.20	960	7.20
78848A7	60	32	21.10	12.07	7.11	114.00	50.90	22.10	1,120	8.40
78059A7	60	43	23.60	13.34	8.38	141.00	56.70	31.70	1,800	13.50
78351A7	60	51	24.30	13.77	9.65	149.00	58.80	38.80	2,280	17.10
78894A7	60	75	27.70	14.10	11.94	156.00	63.50	65.40	4,150	31.10
78071A7	60	61	33.80	19.30	11.43	293.00	81.40	65.60	5,340	40.00
78586A7	60	38	35.20	22.60	9.78	401.00	89.50	45.40	4,060	30.40
78076A7	60	56	36.70	21.50	11.35	364.00	89.80	67.80	6,088	45.60
78083A7	60	81	40.80	23.30	15.37	427.00	98.40	107.20	10,500	78.60
78090A7	60	86	47.60	27.90	16.13	611.00	116.30	134.00	15,580	117.00
78439A7	60	135	47.60	23.30	18.92	98.40	107.40	199.00	21,300	159.00
78716A7	60	73	51.70	30.90	14.35	750.00	127.30	125.10	15,930	119.00
78110A7	60	75	58.00	34.70	14.86	948.00	143.00	144.40	20,650	155.00
78192A7	60	138	58.00	25.60	16.10	514.00	125.00	229.00	28,600	214.00
78867A7	60	68	78.90	48.20	13.84	1,799.00	199.50	177.00	34,700	260.00
78907A7	60	85	78.90	48.20	17.02	1,799.00	200.00	227.00	45,300	339.00

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