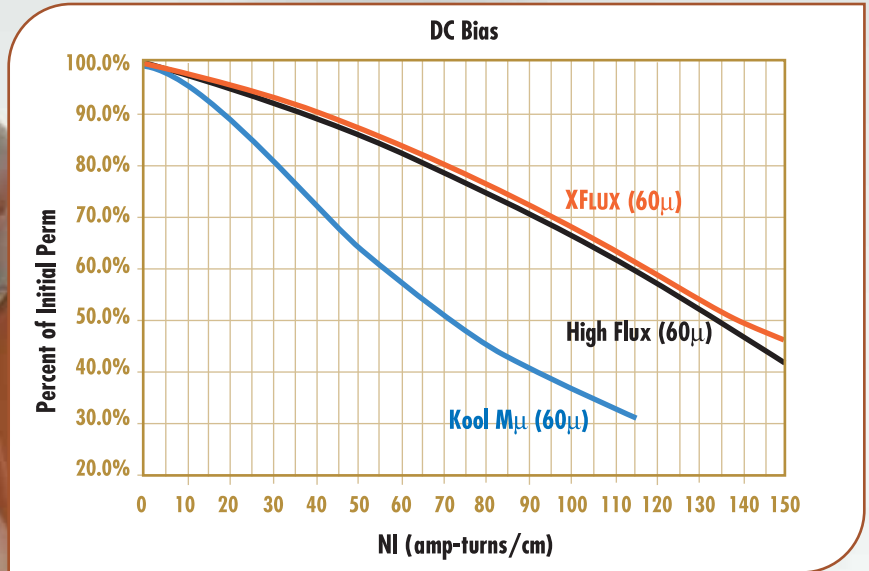
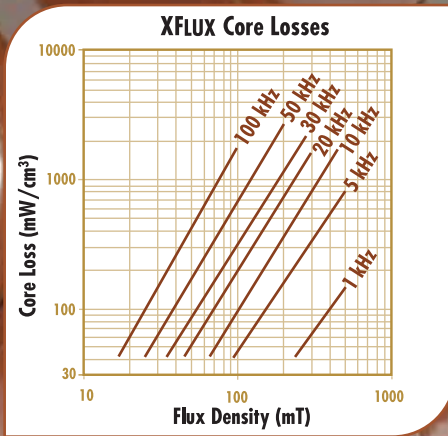




Magnetics XFLUX™ cores
 – 6.5 SiFe cores for
 high current applications.
 SEVEN SIZES NOW AVAILABLE

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



Material Properties

Composition	6.5 SiFe alloy
Permeability	60
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

XFLux Limits

Inductance Tolerance	Losses (50kHz, 100mT) (mW/cm ³)	DC Bias (80% Point) amp-turns/cm	DC Bias (50% Point) amp-turns/cm
± 8%	800 max	60 min	120 min

PART NUMBER	Permeability	A _L ± 8% (nH/T ²)	Dimensions (after finish)			Magnetic Data				
			OD (mm) max	ID (mm) min	HT (mm) max	Wa (mm ²)	le (mm)	Ae (mm ²)	Ve (mm ³)	Weight (grams)
0078848A7	60	32	21.1	12.07	7.11	114	50.9	22.1	1,120	7.3
0078059A7	60	43	23.6	13.34	8.38	141	56.7	31.7	1,800	11.7
0078351A7	60	51	24.3	13.77	9.65	149	58.8	38.8	2,280	14.8
0078894A7	60	75	27.7	14.10	11.94	156	63.5	65.4	4,150	27.0
0078071A7	60	61	33.6	19.45	11.43	293	81.4	65.6	5,340	34.7
0078083A7	60	81	40.8	23.30	15.37	427	98.4	107.2	10,500	68.3
0078439A7	60	135	47.6	23.30	18.92	427	107.4	199.0	21,300	138.5