

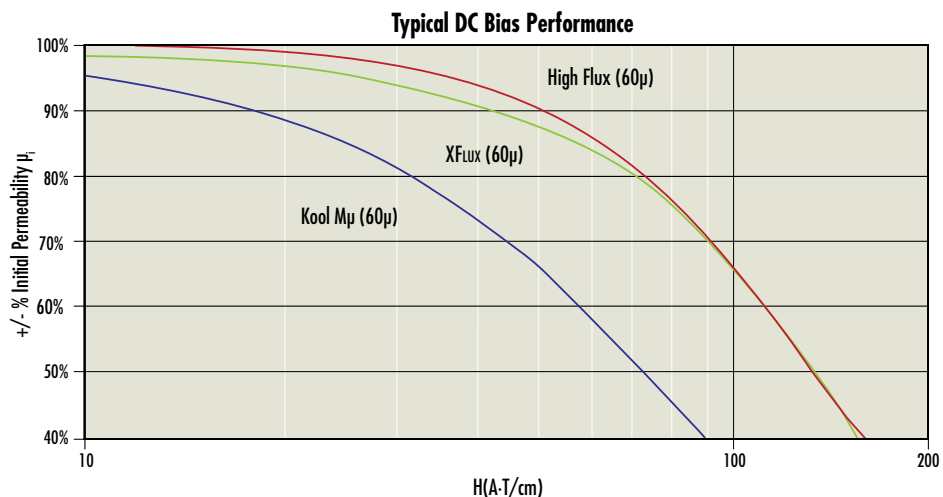
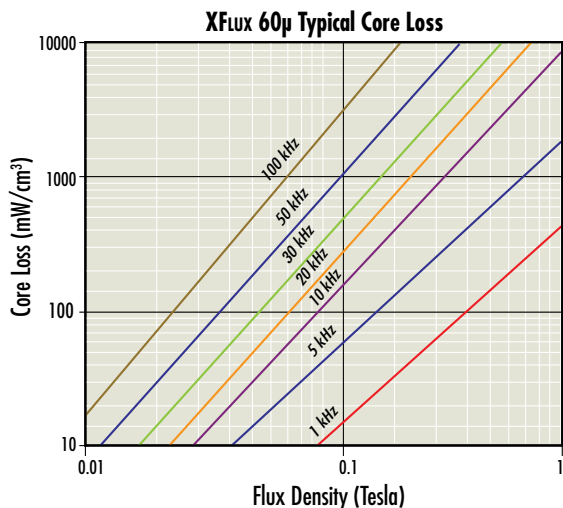


# Magnetics XFlux<sup>®</sup> cores

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 <sup>3</sup>
Curie Temperature	700°C
Operating Temperature Range	-30°C to 200°C
DC Bias (80%) A-T/cm	60 min
DC Bias (50%) A-T/cm	120 min

Material Comparison						
Core Materials	Core Loss	Perm vs. DC Bias	Relative Cost	$\mu$ flat to...	Saturation Flux Density (Tesla)	Temp. Stability
XFLUX	High	Best	Low	500 kHz	1.6	Good
MPP	Lowest	Better	High	2 MHz	0.75	Best
High Flux	Moderate	Best	Medium	1 MHz	1.5	Very Good
Kool Mu	Low	Good	Low	900 kHz	1.05	Good
Powdered Iron	Highest	Good	Lowest	500 kHz	1.2-1.5	Poor
Ferrite	Lowest	Poor	Lowest	200 kHz	0.45	Poor



Part Number	Permeability	$A_i \pm 8\%$ (nH/T <sup>2</sup> )	Dimensions (after finish)			Magnetic Data				
			OD(mm) max	ID(mm) min	HT(mm) max	$W_a$ (mm <sup>2</sup> )	$L_e$ (mm)	$A_e$ (mm <sup>2</sup> )	$V_e$ (mm <sup>3</sup> )	Weight (g)
78051A7	60	27	13.5	6.98	5.52	38.3	31.2	10.9	340	2.5
78121A7	60	35	17.3	9.52	7.12	71.2	41.2	19.2	791	5.6
78381A7	60	43	18.1	9.01	7.12	63.8	41.4	23.2	960	7.2
78848A7	60	32	21.1	12.0	7.12	114	50.9	22.1	1,120	7.9
78059A7	60	43	23.7	13.3	8.39	139	56.7	31.7	1,800	13
78351A7	60	51	24.4	13.7	9.66	149	58.8	38.8	2,280	16
78894A7	60	75	27.69	14.1	12.0	156	63.5	65.4	4,150	29
78071A7	60	61	33.66	19.4	11.5	297	81.4	65.6	5,340	38
78586A7	60	38	35.18	22.5	9.78	399	89.5	46.4	4,150	29
78076A7	60	56	36.71	21.5	11.4	364	89.8	67.8	6,090	43
78083A7	60	81	40.77	23.3	15.4	427	98.4	107	10,600	78
78439A7	60	135	47.63	23.3	19.0	427	107	199	21,300	150
78090A7	60	86	47.63	27.88	16.2	610	116	134	15,600	110
78716A7	60	73	51.69	30.93	14.4	751	127	125	15,900	110
78192A7	60	138	58.04	25.57	16.2	514	125	229	28,600	200
78110A7	60	75	58.04	34.74	14.9	948	143	144	20,700	150
78072A7	60	143	69.40	34.70	21.4	945	158	314	49,700	339
78867A7	60	68	78.95	48.20	13.9	1,820	196	176	34,500	240
78907A7	60	85	78.95	48.20	17.1	1,820	196	221	43,400	320

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