

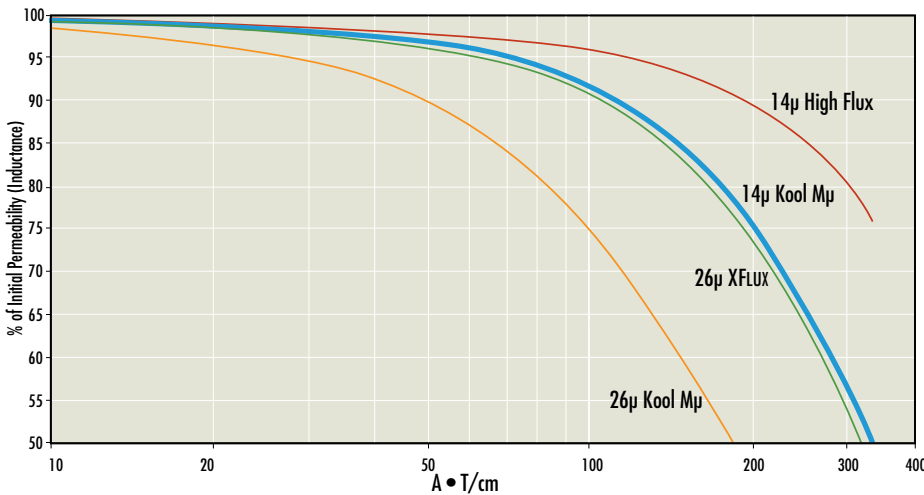


Magnetics 14 μ Kool M μ [®]

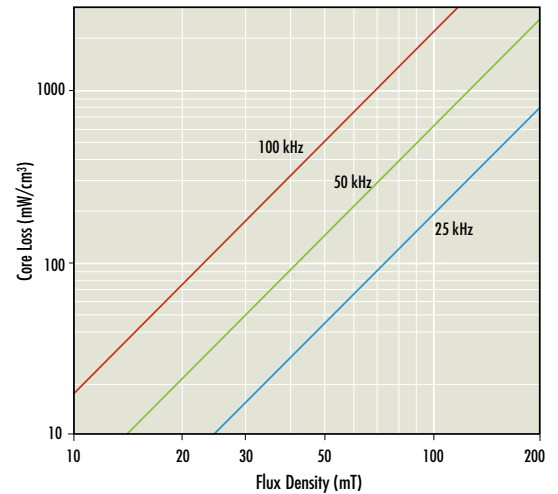
The excellent DC bias performance of 14 μ Kool M μ [®] makes it an outstanding choice for use in very high current inductors needed for photovoltaic, UPS, Welding and Traction inverters. With the combination of high DC bias and reasonable AC losses, 14 μ Kool M μ can provide the optimal solution when the design challenge is to achieve a target inductance at maximum current load in a high current power choke.

- Low AC losses - better efficiency, lower temperature rise than 6.5% silicon iron powders
- No thermal aging - can operate safely at higher temperature than iron powder
- Low magnetostriction - none of the audible noise associated with amorphous cut cores
- Soft saturation - smaller package and fault-tolerant operation compared with gapped ferrite
- No nickel - lower cost than High Flux.

Typical DC Bias Performance



Kool M μ 14 μ Typical Core Loss



Part Number	Permeability	A _L ±8% (nH/T ²)	Dimensions (after finish)			Magnetic Data				
			OD(mm) max	ID(mm) min	HT(mm) max	W _a (mm ²)	L _e (mm)	A _e (mm ²)	V _e (mm ³)	Weight (g)
77257A7	14	19	40.77	23.3	15.4	427	98.4	107	10,600	60
77441A7	14	32	47.63	23.3	19.0	427	107	199	21,300	104
77092A7	14	20	47.63	27.88	16.2	610	116	134	15,600	77
77718A7	14	17	51.69	30.93	14.4	751	127	125	15,900	78
77190A7	14	32	58.04	25.57	16.2	514	125	229	28,600	144
77112A7	14	18	58.04	34.74	14.9	948	143	144	20,700	104
77614A7	14	44	62.91	31.69	25.91	789	144	360	51,800	270
77075A7	14	33	69.4	34.69	21.4	945	158	314	49,700	250
77734A7	14	48	75.01	44.39	35.92	1,550	184	497	91,400	460
77869A7	14	16	78.95	48.2	13.9	1,820	196	176	34,500	170
77909A7	14	20	78.95	48.2	17.1	1,820	196	221	43,400	220
77101A7	14	26	103.0	55.75	17.9	2,470	243	358	86,900	440
77336A7	14	37	134.0	77.19	26.8	4,710	324	678	220,000	1,100
77164A7	14	42	166.5	101.0	33.15	8,030	412	987	407,000	2,000

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