

Softmagnetic Core Materials | Power Transformer Product Sheet



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High efficient nanocrystalline POWER TRANSFORMER cores

Nanocrystalline material is extremely low-loss and thus predestinated for the application „Power Transformer“. Our PT cores enable a very powerful design with very low losses at high frequencies. As the epoxy coating rests directly on the strip material as the heat dissipation is optimal. Due to a low

magnetostriction and very good RF characteristics, as well as the excellent temperature resistance of the ribbon material itself, you will get optimal conditions for a special design of your power transformer.

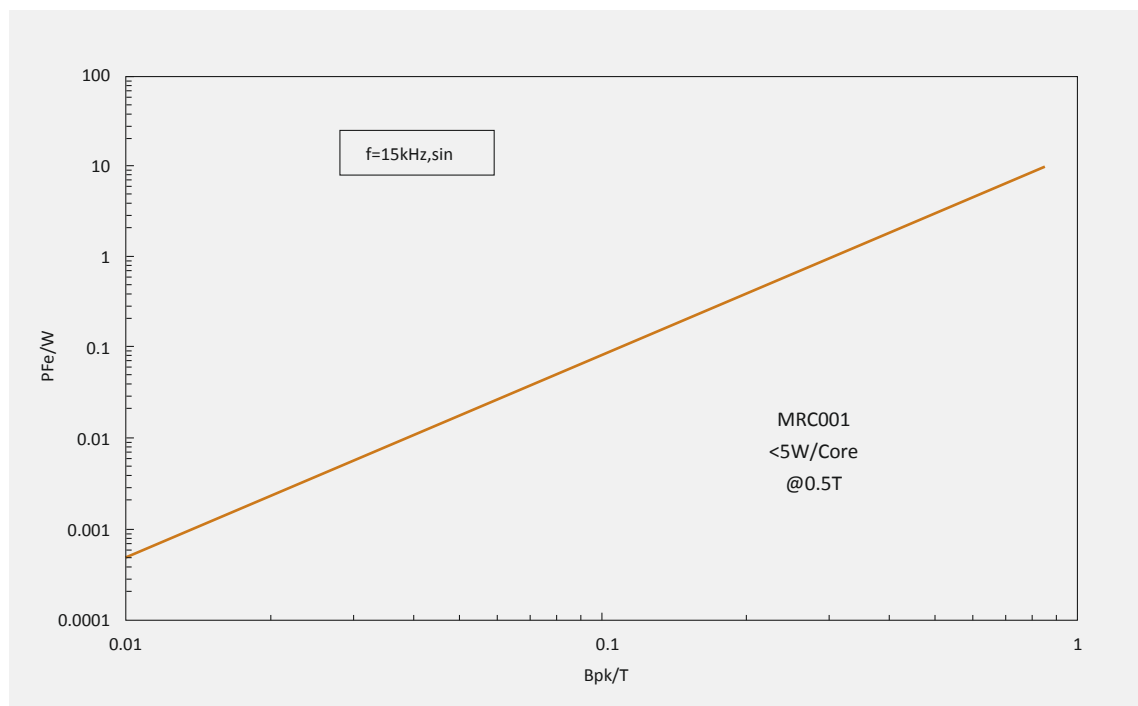
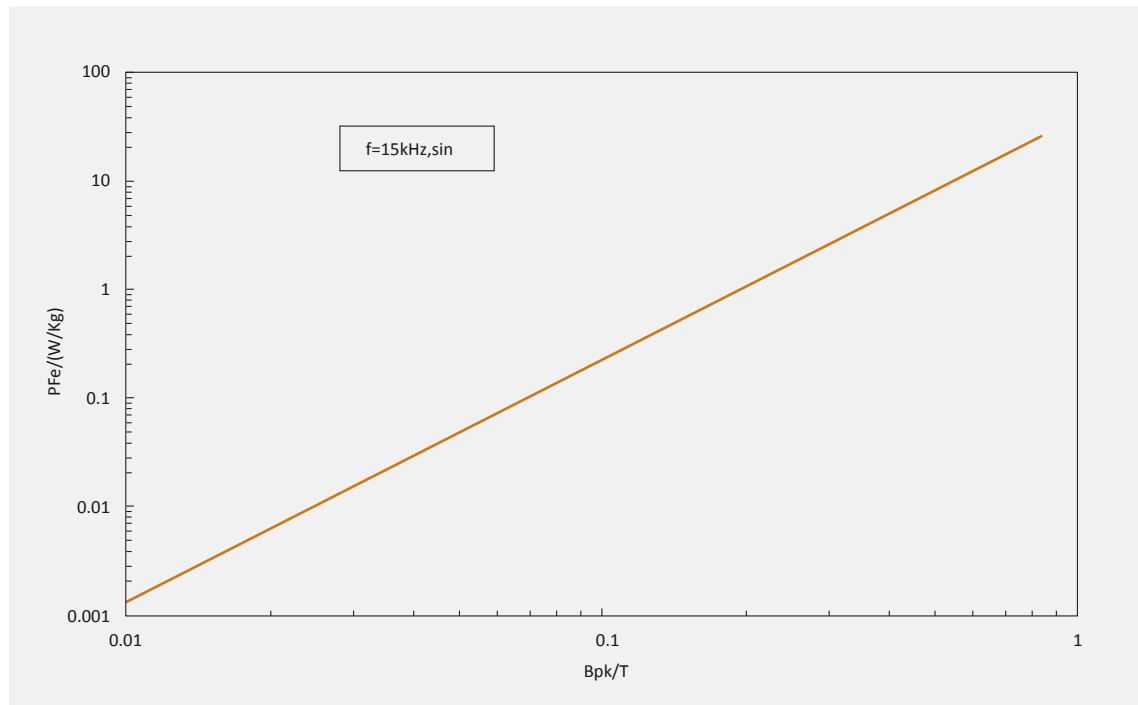
Technical specifications

Types / Reference	Nominal dimensions			finished dimensions			Mfe (gr) approx.	Lfe (cm)	Afe (cm ²)	Losses @500mT 15kHz, sin	Losses @300mT 100kHz, sin
	OD	ID	H	OD	ID	H					
LF1610-MRC017	16	10	6	17,6	8,3	8	4,3	4,08	0,14		≤0,52 W/core*
LF2012-MRC018	20	12,5	8	22	10,5	10	9	5,11	0,24		≤1,08 W/core*
LF2516-MRC019	25	16	10	27	14	12	17	6,43	0,35		≤2,04 W/core
LF3020-MRC020	30	20	15	32,3	17,8	17,8	33	7,85	0,57		≤3,95 W/core*
LF4025-MRC021	40	25	15	42,3	22,5	17,3	64	10,2	0,87		≤7,1 W/core*
LF5040-MRC022	50	40	20	52,3	37,1	22,8	79	14,1	0,76		≤8,7 W/core*
LF5240-MRC023	52	40	25	54,3	37,1	27,8	121	14,45	1,14		≤13,3 W/core*
LF5540-MRC024	55	40	25	57,5	37,1	27,8	156	14,9	1,43		≤17,2 W/core*
LF6351-MRC014	63,5	51	25	65,5	48	27,3	170	17,9	1,21	≤1,6 W/core	
LF8063-MRC012	80	63	25	83,5	59,3	28	267	22,4	1,65	≤2,4 W/core	
LF10080-MRC001	100	80	25	104,5	74,5	28,5	395	28,2	1,9	≤5 W/core	
LF130100-MRC013	130	100	25	135,5	94,5	28,5	796	36,1	2,92	≤8 W/core	
LF13273-MRC015	132	73	25	137	68	28,5	1.295	31,3	5,46	≤13 W/core	
LF160110-MRC016	160	110	25	165	105	28,5	1.435	42	4,61	≤15 W/core	

The information is non-binding and can be adjusted without prior information.

*preliminary

Measurements for power transformer cores (Power Transformer)



Important note: For safety and the proper usage, you are requested to approve the offered product specification for your application. These products are designed for general electronic devices. Performance and safety of this product for applications which could lead to physical harm is not confirmed. Be sure to examine the performance and safety when the product is used for these applications and take appropriate measures, such as failsafe, to avoid any accident. It is the responsibility of user to take such measures.