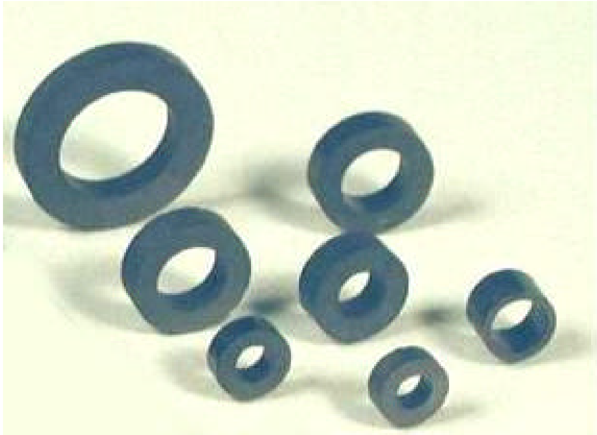
"FERRITE DOMEN Co." - LEADER OF THE RUSSIAN FERRITE DOMAIN



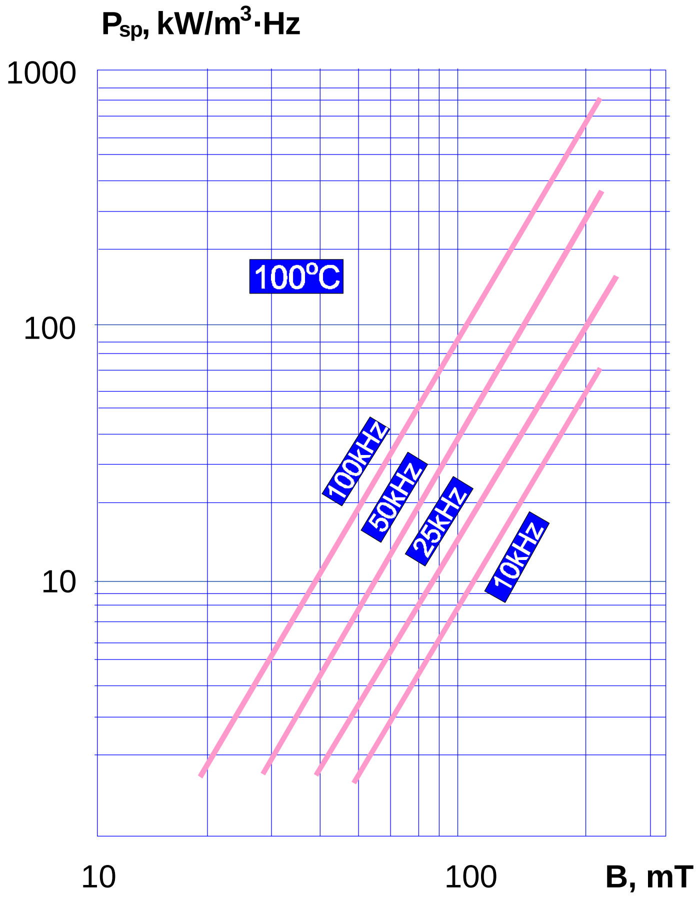
Ferrite Domen Co. presents ferrite material 2500HMC5 and manufactures ring cores of OD from 4 mm (0.16") to 32 mm (1.26") for **power application** at frequencies over 100 kHz in pulse and sine RF fields.
New material is analogues to ferrite grades PC40 (TDK) and N67 (EPCOS).

Characteristics of Power Ferrite Materials

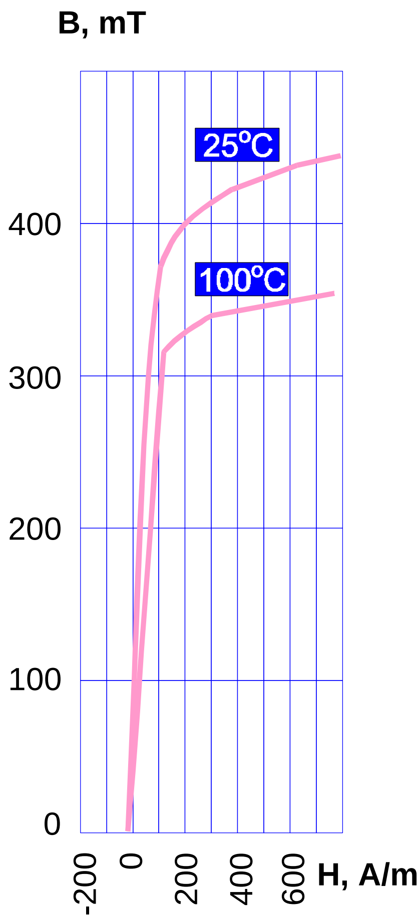
Specs	Unit	Measuring conditions	Material Grades		NEW!
			2500 HMC1	**2500 HMC2**	**2500 HMC5**
m_i	—				**2000 ± 500**
m_{max}	—	T = + 20 °C	4500	4500	
	—	T = + 120 °C	4100	4100	
P_{sp}	$\frac{\mu W}{cm^3 Hz}$	f = 16 kHz, B~= 200mT, t = +25 °C	10.5	8.5	
		f = 16 kHz, B~= 200mT, t = +100 °C	8.7	6.0	
		f = 100 kHz, B~= 200mT, t = +25 °C			**9.0**
		f = 100 kHz, B~= 200mT, t = +100 °C			**7.6**
B	mT	H_{const}=240 A/m, t =+100 °C	290	330	**310**
B_m	mT	H_{const} =800 A/m, T = +25 °C	450	—	
		H_{const} =1200 A/m, T = +25 °C			**450**
B_r	mT	H_{const} =800 A/m, T = +25 °C	100	—	
		H_{const} =1200 A/m, T = +25 °C			**100**
H_c	A/m	H_{const} =800 A/m, T = +25 °C	16	16	
		H_{const} =1200 A/m, T = +25 °C			**12**
T_c	°C		>200	>200	**>220**
r	Ohm·m		1	1	**2**
d	g/cm³		4.9	4.9	**4.9**

Symbols

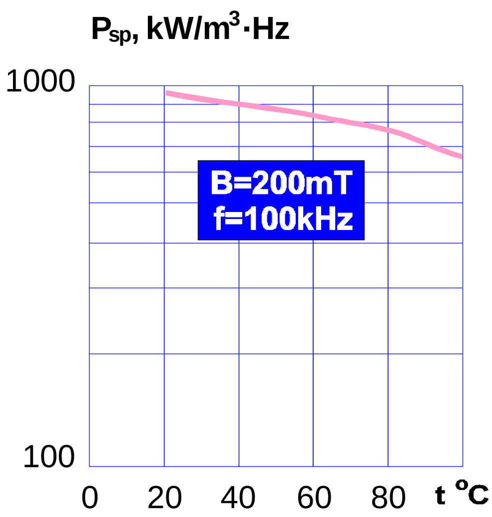
m_i	Initial permeability
P_{sp}	Specific bulk magnetic loss
B	Flux density
B_m	Max. magnetic flux density
B_r	Residual flux density
H_c	Coercive force
T_c	Curie temperature
r	Specific resistance
d	Density



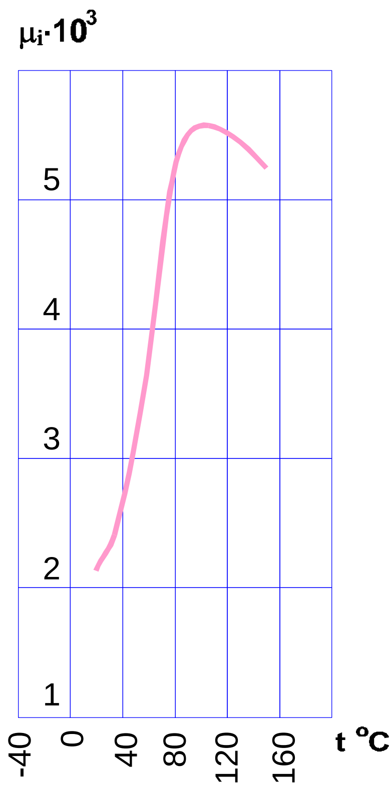
Specific magnetic loss vs induction
at different frequencies



B-H curves at different frequencies

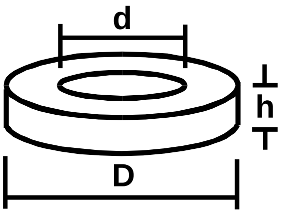


Specific magnetic loss vs temperature



Initial magnetic permeability curve over
operation frequency range

Type	**K** – Ring Cores
K 4×2,5×1,2	
K 4×2,5×1,5	
K 4×2,5×1,6	
K 5×2×1,5	
K 5×3×1	
K 5×3×1,5	
K 7×4×2	
K 10×6×3	
K 12×5×5,5	
K 12×6×4,5	
K 12×8×3	
K 14×9×4,5	
K 16×10×4,5	
K 20×12×6	
K 25×15×12	
K 28×16×8	
K 28×16×9	
K 32×20×6	
K 32×20×9	



K DxdXh
(mm)

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