NANOCYRSTALLINE MAG–AMP CORE

STANDARD CORE DIMENSIONS & SPECIFICATIONS

Part No.	Finished Core(mm) ①			L_{eff} ②	A_{eff} ③	V_{eff} ④	W_a ⑤	ØW_a ⑥	Ø ⑦
	OD	ID	HT	(mm)	(mm^2)	(mm^3)	(mm^2)	(μWb–mm^2)	(μWb)
MN–10B–L	11.2	5.7	5.7	26.1	5.6	148	26	344	13.5
MN–11S–L	14.0	6.6	6.3	29.6	5.3	157	34	431	12.6
MN–13B–L	14.7	7.8	7.8	34.8	4.1	144	49	485	9.9
MN–15S–L	16.9	8.6	8.6	38.7	8.8	345	59	1254	21.1
MN–18S–L	19.8	10.4	10.4	45.7	9.5	438	85	1928	22.7

Notes:

① The finished core dimensions shows a nominal ones. please consult sales department for tolerance.

② Norminal values of magnetic path length.

③ Norminal values of cross–section area.

④ Norminal values of volume.

⑤ Norminal values window area.

⑥ Norminal handling power factor.

⑦ The total flux with its tolerance of ±15%. All values are measured at 100kHz, 80A/m, RT(~25℃).

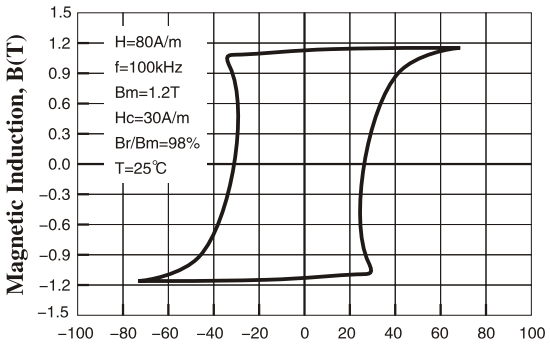
＊The squareness, Br/Bm(%). of all above listing part numbers is greater than 96% at 100kHz, 80A/m and 25℃.

＊＊The coercive force field, Hc(A/m), of all above listing part number is lower than 36A/m at 100kHz, 80A/m and 25℃.

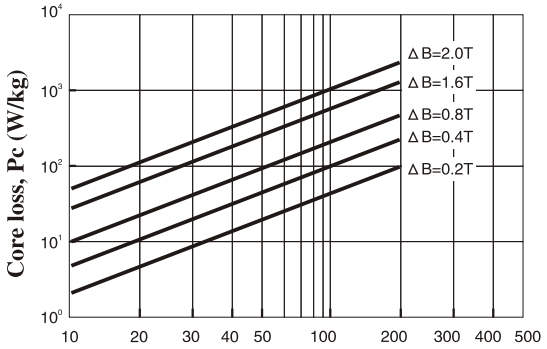
＊＊＊If customer need the exact information's on each part number, please inquire of SHINHOM sales department.

TYPICAL MAGNETIC CHARACTERISTICS

Typical B–H loop shape@100kHz



Typical losses, Pc(f, ΔB)



＊The core losses measured by sinusoidal waveforms in bipolar swing between +B to –B