

Standard Core Dimensions & Specifications

Nanocrystalline Mag-Amp Core

Part No.	Finished Core (mm) ¹⁾			L _{eff} ²⁾ (mm)	A _{eff} ³⁾ (mm ²)	V _{eff} ⁴⁾ (mm ³)	W _a ⁵⁾ (mm ²)	Φ W _a ⁶⁾ (μWb-mm ²)	Φ ⁷⁾ (μWb)
	OD	ID	HT						
AMSN-10B-L	11.2	5.7	5.7	26.1	5.6	148	26	344	13.5
AMSN-11S-L	14.0	6.6	6.3	29.6	5.3	157	34	431	12.6
AMSN-13B-L	14.7	7.8	4.6	34.8	4.1	144	49	485	9.9
AMSN-15S-L	16.9	8.6	6.5	38.7	8.8	345	59	1254	21.1
AMSN-18S-L	19.8	10.4	6.4	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) Nominal values of magnetic path length.

3) Nominal values of cross-section area.

4) Nominal values of volume.

5) Nominal values of window area.

6) Nominal Handling power factor.

7) Total flux with its tolerances of ± 15 %. All values are measured at 100 kHz, 80 A/m, RT (~ 25°C).

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

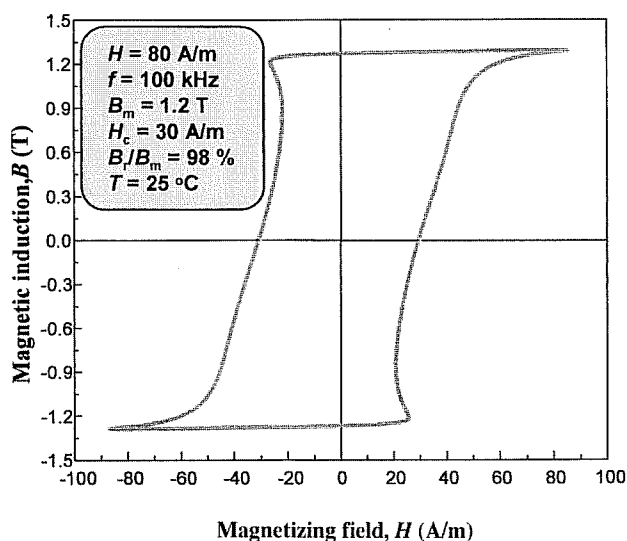
** The coercive force field, H_c (A/m), of all above listing part numbers is lower than 36 A/m at 100 kHz, 80 A/m and 25°C.

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

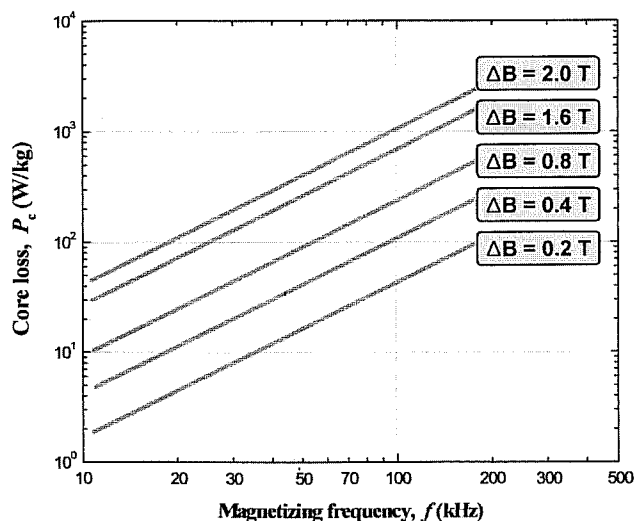
Typical Magnetic Characteristics

Nanocrystalline Mag-Amp Core

» Typical B-H loop shape @ 100KHz



» Typical losses, P_c (f, ΔB)



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