

# Standard Core Dimensions & Specifications

High Quality Mag-Amp Cores

Part No. #	Finished Core (mm) <sup>1)</sup>			L <sub>eff</sub> <sup>2)</sup> (mm)	A <sub>eff</sub> <sup>3)</sup> (mm <sup>2</sup> )	V <sub>eff</sub> <sup>4)</sup> (mm <sup>3</sup> )	W <sub>a</sub> <sup>5)</sup> (mm <sup>2</sup> )	Φ W <sub>a</sub> <sup>6)</sup> (μWb-mm <sup>2</sup> )	Φ <sup>7)</sup> (μWb)
	OD	ID	HT						
AMSA-09S-L	10.7	5.5	6.3	25.0	3.5	88	24	97	4.1
AMSA-10-S-L	11.9	5.8	6.3	27.0	4.7	129	26	145	5.5
AMSA-10B-L	11.2	5.7	5.7	25.9	6.0	157	26	176	6.9
AMSA-11A-L	14.0	6.6	4.8	29.9	3.7	113	34	147	4.3
AMSA-11S-L	14.0	6.6	6.3	29.9	5.6	196	34	257	6.6
AMSA-12A-L	14.0	6.6	4.8	31.0	4.7	147	34	185	5.4
AMSA-12S-L	14.0	6.6	6.3	31.0	7.0	221	34	277	8.1
AMSA-13B-L	14.7	7.8	4.6	34.8	4.1	144	48	235	4.8
AMSA-14S-L	15.9	6.8	6.5	34.3	10.0	350	36	421	11.6
AMSA-15A-L	16.7	10.5	6.3	42.2	5.3	223	87	528	6.1
AMSA-15S-L	16.9	8.6	6.5	38.7	9.1	355	58	624	10.5
AMSA-16B-L	17.8	11.0	5.1	44.7	4.0	179	95	445	4.6
AMSA-16D-L	17.8	8.3	8.1	39.3	12.6	504	54	801	14.8
AMSA-16A-L	17.8	8.3	8.1	40.1	14.4	588	54	904	16.7
AMSA-18S-L	19.8	10.4	6.4	46.5	10.5	496	85	1036	12.2
AMSA-18D-L	20.0	8.7	12.0	45.7	21.1	973	59	1451	24.4
AMSA-19B-L	21.2	11.0	5.1	49.4	8.1	407	95	910	9.4
AMSA-19A-L	21.6	11.0	7.9	49.8	15.9	805	95	1758	18.5
AMSA-20A-L	22.5	10.4	10.1	50.1	23.4	1195	85	2302	27.1
AMSA-21S-L	22.8	12.4	6.3	54.2	12.3	675	121	1727	14.3
AMSA-25A-L	27.7	17.3	12.9	70.4	19.5	1378	235	5312	22.6
AMSA-25S-L	28.4	13.8	12.2	63.4	35.1	2261	150	5912	40.7

## 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) The typical total flux with its tolerance of  $\pm 15\%$ . All values are measured at 100kHz, 80 A/m, RT( $\sim 25^\circ\text{C}$ ).

For the detailed total flux specification limits, please contact sales and marketing department.

The squareness, Br/Bm(%), of all above listing part numbers is greater than 96% at 100kHz, 80A/m and  $25^\circ\text{C}$  for L-type.

\*\* The coercive force field, Hc (A/m), of all above listing part number is lower than 18A/m at 100kHz, 80A/m and  $25^\circ\text{C}$ .

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

# For a special request, AMOSENSE can be provide special Mag-Amp cores with higher permeability.