

CORES FOR POWER TRANSFORMERS

STANDARD CORE DIMENSIONS & SPECIFICATIONS

N50 Series Transformer Cores

Part No.	Core Dimensions(mm)			Case Dimensions(mm) ①			L _{eff} ② (mm)	A _{eff} ③ (mm ²)	V _{eff} ④ (mm ³)	A _L ⑤ (μH)	Box type ⑥
	OD	ID	HT	OD	ID	HT					
N50-0703	7.2	4.3	2.8	8.0	3.5	3.5	18.1	3.0	54.3	5.4	a)
N50-1005	10.0	6.5	4.5	11.2	5.1	6.5	25.9	5.9	152.8	9.0	a)
N50-1205	12.0	8.0	4.5	13.5	6.5	6.5	31.4	6.8	213.5	9.0	b)
N50-1405	14.0	10.0	4.5	15.5	8.5	6.5	37.7	6.8	256.4	6.9	b)
N50-1608	16.0	10.0	8.0	17.2	8.5	10.0	40.8	18.0	734.4	13.2	b)
N50-2008	20.0	12.0	8.0	21.8	10.6	10.0	50.2	24.0	1204.8	13.2	b)
N50-2010	20.0	12.0	10.0	21.8	10.6	12.0	50.2	30.0	1506.0	16.0	b)
N50-2610	26.0	16.0	10.0	27.5	14.0	12.5	65.9	38.0	2504.2	27.9	b)
N50-2815	28.0	18.0	15.0	30.2	16.0	17.6	72.2	56.0	4043.2	33.0	b)
N50-3210	32.0	20.0	10.0	34.0	17.8	12.5	81.6	45.0	3672.0	22.8	b)
N50-4010	40.0	25.0	10.0	42.5	22.5	13.0	102.1	56.0	5717.6	18.0	b)
N50-4013	40.0	25.0	12.5	42.5	22.5	14.5	102.1	70.0	7147.0	24.0	b)
N50-5010	50.0	32.0	15.0	53.2	29.0	16.2	128.7	101.0	12998.7	33.0	b)
N50-5920	59.0	40.0	20.0	63.0	37.0	23.5	155.4	143.0	22222.2	33.0	b)
N50-6420	64.0	40.0	20.0	68.0	37.0	23.5	163.3	180.0	29394.0	36.0	b)
N50-8020	80.0	50.0	20.0	83.0	47.0	23.5	204.1	225.0	45922.5	39.0	b)
N50-10020	100.0	60.0	20.0	105.0	56.0	25.0	251.2	300.0	75360.0	42.0	b)
N50-12020	120.0	70.0	20.0	125.0	67.0	25.0	298.3	375.0	118862.5	34.9	b)
N50-12025	120.0	70.0	25.0	125.0	67.0	31.0	298.3	469.0	139902.7	42.0	b)
N50-12030	120.0	70.0	30.0	125.0	67.0	36.0	298.3	563.0	167942.9	49.2	b)
N50-13040	130.0	80.0	40.0	134.0	77.0	44.0	329.7	750.0	247275.0	75.0	b)
N50-13050	130.0	80.0	50.0	134.0	77.0	54.0	329.7	938.0	309258.6	93.0	b)
N50-16025	160.0	110.0	25.0	165.0	105.0	28.5	361.0	475.0	171475.0	46.0	b)

Notes:

- ① The finished core dimensions shows a typical ones. Tolerance is ± 0.2mm.
- ② Norminal values of magnetic path length.
- ③ Norminal values of cross-section area.
- ④ Norminal values of volume.
- ⑤ Minimum values. Initial nominal inductance at 10kHz, 0.1Vosc@RT.
- ⑥ Finished box type
 - a) Epoxy coating.
 - b) Plastic case.