

PFC & OUTPUT CHOKE CORES

STANDARD CORE DIMENSIONS & SPECIFICATIONS

Dimension & Normalized inductance, A_L , of GO-50, GO-100 series choke cores

GO-50 series

Part No.	Core Dimensions(mm)			Case Dimensions(mm)①			L_{eff} ② (cm)	A_{eff} ③ (cm ²)	V_{eff} ④ (cm ³)	A_L ⑤ (μ H)	DCB ⑥ (AT)	μ_e ⑦
	OD	ID	HT	OD	ID	HT						
GO50-2008	20.0	12.0	8.0	22.5	09.7	11.0	5.02	0.24	1.2048	0.11	180	180
GO50-2610	26.0	16.0	10.0	30.2	14.3	13.5	6.59	0.38	2.5042	0.13	240	180
GO50-3210	32.0	20.0	10.0	34.5	17.5	13.5	8.16	0.45	3.6720	0.14	300	200
GO50-4010	40.0	25.0	10.0	45.0	23.0	13.5	10.21	0.56	5.7176	0.13	360	190
GO50-4013	40.0	25.0	12.5	45.0	23.0	16.0	10.21	0.70	7.1470	0.15	360	175
GO50-4015	40.0	25.0	15.0	45.0	23.0	19.0	10.21	0.84	8.5764	0.20	360	195
GO50-5015	50.0	32.0	15.0	55.0	29.0	18.0	12.87	1.01	12.9987	0.20	460	200
GO50-5920	59.0	40.0	20.0	63.5	37.0	24.0	15.54	1.43	22.2222	0.22	600	190

GO-100 series

Part No.	Core Dimensions(mm)			Case Dimensions(mm)①			L_{eff} ② (cm)	A_{eff} ③ (cm ²)	V_{eff} ④ (cm ³)	A_L ⑤ (μ H)	DCB ⑥ (AT)	μ_e ⑦
	OD	ID	HT	OD	ID	HT						
GO100-2610	26.0	16.0	10.0	30.2	14.3	13.5	6.59	0.38	2.5042	0.060	620	80
GO100-3210	32.0	20.0	10.0	34.5	17.5	13.5	8.16	0.45	3.6720	0.070	650	100
GO100-3710	37.0	20.0	18.0	39.0	18.0	19.7	8.95	1.15	10.2925	0.095	700	60
GO100-4012	40.0	25.0	12.5	45.0	23.0	16.0	10.21	0.74	7.5554	0.080	800	90
GO100-4015	40.0	25.0	15.0	45.0	23.0	19.0	10.21	0.84	8.5764	0.095	810	92
GO100-5015	50.0	32.0	15.0	55.0	29.0	18.0	12.87	1.01	14.1570	0.090	1030	90
GO100-5920	59.0	40.0	20.0	63.5	37.0	24.0	15.54	1.43	22.2222	0.100	1250	90
GO100-6420	64.0	40.0	20.0	69.0	37.0	24.0	16.33	1.43	23.3519	0.120	1300	110
GO100-10020	100.0	60.0	20.0	103.0	57.0	24.0	25.12	1.43	35.9216	0.140	2000	200

Notes:

- 1) The finished core dimensions shows a typical ones. Tolerance is ± 0.2 mm.
- 2) Normal values of magnetic path length.
- 3) Normal values of cross-section area.
- 4) Normal values of volume.
- 5) A_L value with its tolerances of $\pm 20\%$. All A_L values are measured at 100kHz with the oscillation voltage of 1Vosc.
- 6) DCB value: rated $I_{DC}(A) \times N(\text{turns})$ at A_L value down low 80%.
- 7) Typical permeability (μ_e) of each part number. The permeability can change to improve the characteristic without notice.