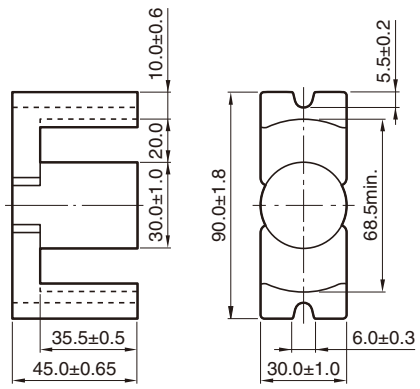
Mn-Zn EC series Part No.: PC40 EC90X90X30

SHAPES AND DIMENSIONS



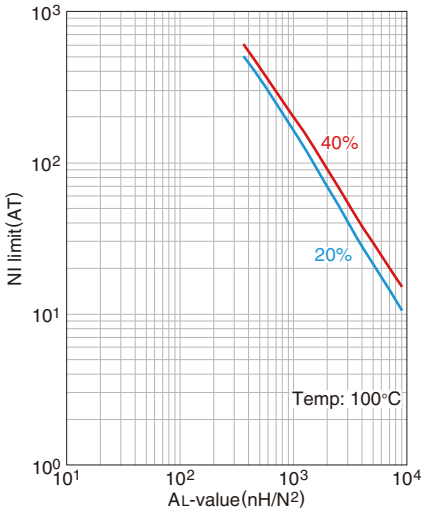
Dimensions in mm

Effective parameter									Electrical characteristics
Core factor		Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional center pole area	Minimum cross-sectional area	Winding cross-sectional area	Weigh (approx.)	AL-value
C_1 (mm^{-1})	$C_2 \times 10^{-2}$ (mm^{-3})	ℓe (mm)	Ae (mm^2)	Ve (mm^3)	A_c (mm^2)	A min.* (mm^2)	Acw (mm^2)	(g)	(nH/N^2) 1kHz 0.4A/m 23°C
0.3533380	0.05648	221	626	138270	707	570B*	1420	635	7415±25%

* The symbol followed A min. value shows minimum cross-sectional area part.
C is center pole part, L is outer pole part, B is the back part.

○ Calculated output power (forward converter mode): 3.4kW (100kHz)

NI limit vs. AL-value



The 20% and 40% graph shows when a 20% and 40% drop from the initial AL-value has been made due to the DC superimposition.

AL-value vs. Air gap length