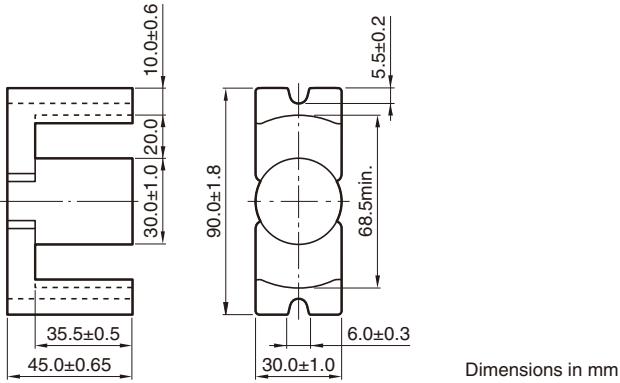


Mn-Zn EC series **Part No.: PC40 EC90X90X30**

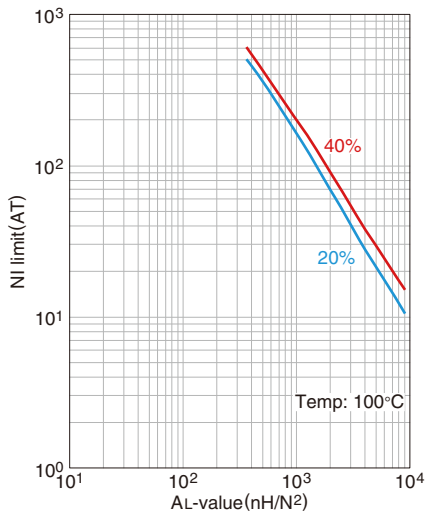
■ SHAPES AND DIMENSIONS



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)	l_e (mm)	A_e (mm ²)	V_e (mm ³)	A_c (mm ²)	$A_{min.*}$ (mm ²)	A_{cw} (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%

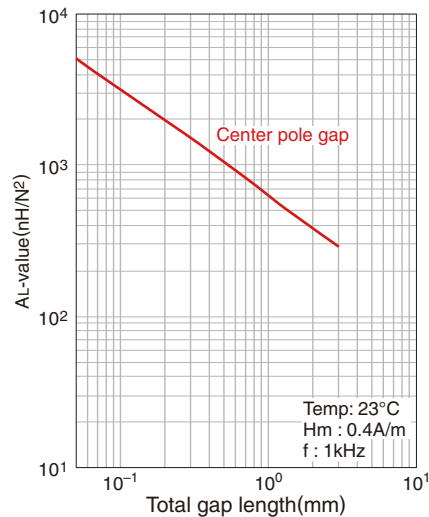
* The symbol followed A min. value shows minimum cross-sectional area part.
 C is center pole part, L is outer pole part, B is the back part.
 ○ Calculated output power (forward converter mode): 3.4kW (100kHz)

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



⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
 Please note that the contents may change without any prior notice due to reasons such as upgrading.