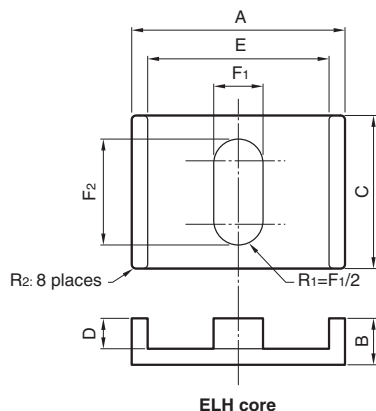


Mn-Zn EL Cores

■ SHAPES AND DIMENSIONS



PC95	EL11X4	-	Z
Material	Size of E core		AL-value (Z: without air gap)

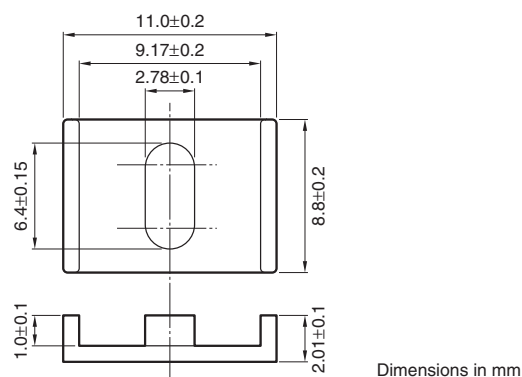
Part No.(ELH+ELH)	Dimensions (mm)							
	A	B	C	D	E	F ₁	F ₂	R ₂
PC95EL11X4-Z	11.00±0.20	2.01±0.10	8.80±0.20	1.00±0.10	9.17±0.20	2.78±0.10	6.40±0.15	0.30
PC90EL11X4-Z								
PC95EL13X4.4-Z	13.00±0.25	2.19±0.10	10.40±0.20	1.00±0.10	10.83±0.20	3.29±0.10	7.56±0.15	0.30
PC90EL13X4.4-Z								
PC95EL15.5X5.8-Z	15.50±0.30	2.92±0.10	12.40±0.25	1.50±0.10	12.92±0.25	3.92±0.10	9.01±0.20	0.30
PC90EL15.5X5.8-Z								
PC95EL18X7.3-Z	18.00±0.30	3.65±0.10	14.40±0.25	2.00±0.10	15.00±0.30	4.55±0.10	10.47±0.20	0.30
PC90EL18X7.3-Z								
PC95EL20X7.7-Z	20.00±0.35	3.83±0.10	16.00±0.30	2.00±0.10	16.67±0.30	5.06±0.15	11.63±0.20	0.50
PC90EL20X7.7-Z								
PC95EL22X8-Z	22.00±0.40	4.02±0.10	17.60±0.30	2.00±0.10	18.33±0.35	5.56±0.15	12.79±0.25	0.50
PC90EL22X8-Z								
PC95EL25X8.6-Z	25.00±0.45	4.29±0.10	20.00±0.35	2.00±0.10	20.83±0.35	6.32±0.15	14.54±0.25	0.50
PC90EL25X8.6-Z								

Part No.(ELH+ELH)	Effective parameter							Electrical characteristics	
	Core factor C ₁ (mm ⁻¹)	Effective cross-sectional area A _e (mm ²)	Effective magnetic path length ℓ _e (mm)	Effective core volume V _e (mm ³)	A _{min} . (mm ²)	A _{cw} (mm ²)	Weigh (g)	AL-value (nH/N ²) 1kHz 0.5mA 100Ts Without air gap With air gap	
PC95EL11X4-Z	0.826	13.7	16.5	226	15.9	6.39	1.3	2400±25%	50±3%
PC90EL11X4-Z								1950±25%	80±5% 125±7%
PC95EL13X4.4-Z	0.667	15.4	23.1	357	22.4	7.54	2.0	3160±25%	63±3%
PC90EL13X4.4-Z								2500±25%	100±5% 160±7%
PC95EL15.5X5.8-Z	0.597	19.6	32.9	646	31.9	13.5	3.5	3680±25%	63±3%
PC90EL15.5X5.8-Z								3000±25%	100±3% 160±5%
PC95EL18X7.3-Z	0.538	23.8	44.3	1050	43.0	20.9	6.0	4760±25%	80±3%
PC90EL18X7.3-Z								3600±25%	125±3% 200±5%
PC95EL20X7.7-Z	0.469	25.6	54.6	1400	52.9	23.2	7.8	5630±25%	80±3%
PC90EL20X7.7-Z								4050±25%	125±3% 200±5%
PC95EL22X8-Z	0.413	27.3	66.2	1810	64.2	25.5	10	6540±25%	100±3%
PC90EL22X8-Z								5050±25%	160±3% 250±5%
PC95EL25X8.6-Z	0.350	30.0	85.6	2570	83.0	29.0	15	7540±25%	100±3%
PC90EL25X8.6-Z								5700±25%	160±3% 250±5%

⚠ 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.

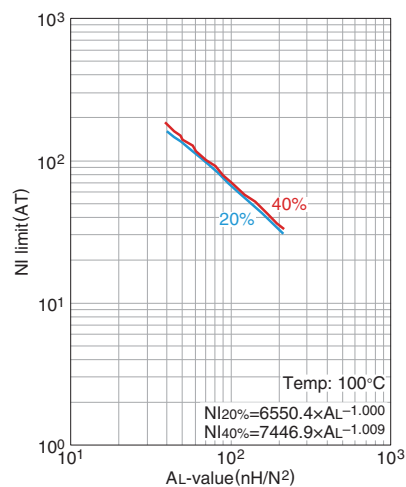
Mn-Zn Planar series Part No.: PC90EL11X4-Z

SHAPES AND DIMENSIONS



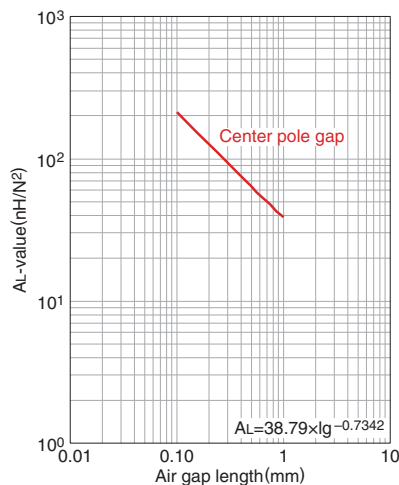
Effective parameter						Electrical characteristics	
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weight	AL-value *	Core loss
C_1 (mm^{-1})	ℓ_e (mm)	A_e (mm^2)	V_e (mm^3)	A_{cw} (mm^2)	(g/set)	(nH/N^2) 1kHz 0.5mA	(W)max. 100kHz 200mT 100°C
0.826	13.7	16.5	226	6.39	1.3	1950±25%	0.2

NI limit vs. AL-value (Typ.)



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 (Typ.)

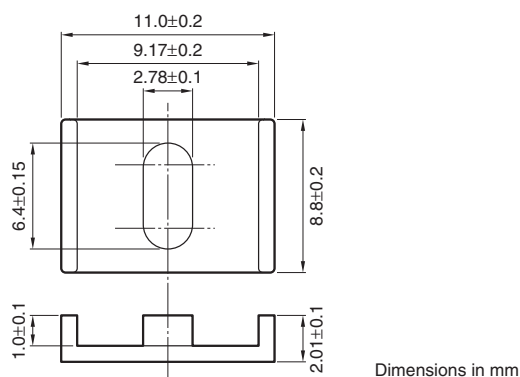


Measuring conditions

- Coil : $\phi 0.18$ 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

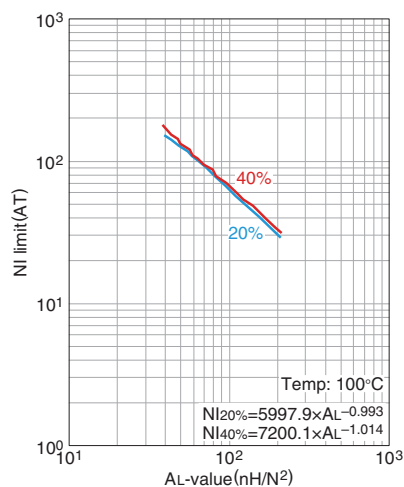
Mn-Zn Planar series **Part No.: PC95EL11X4-Z**

■ SHAPES AND DIMENSIONS



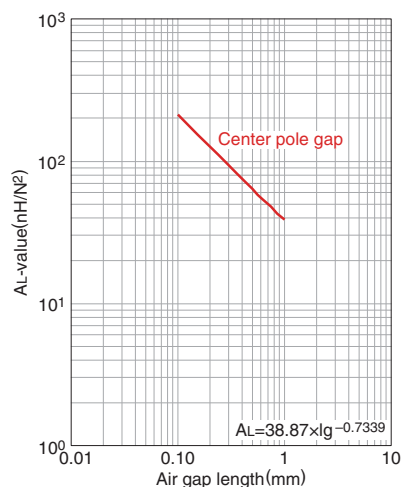
Effective parameter						Electrical characteristics				
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weight	AL-value *	Core loss			
C_1 (mm ⁻¹)	ℓ_e (mm)	A_e (mm ²)	V_e (mm ³)	A_{cw} (mm ²)	(g/set)	(nH/N ²) 1kHz 0.5mA	(W)max. 100kHz 200mT	25°C	80°C	120°C
0.826	13.7	16.5	226	6.39	1.3	2400±25%	0.2	0.18	0.2	

NI limit vs. AL-value (Typ.)



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 (Typ.)

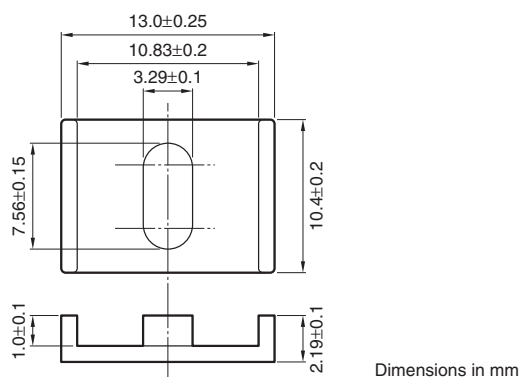


Measuring conditions

- Coil : $\phi 0.18$ 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

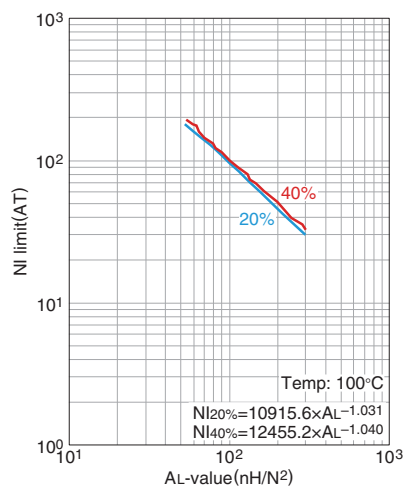
Mn-Zn Planar series Part No.: PC90EL13X4.4-Z

SHAPES AND DIMENSIONS



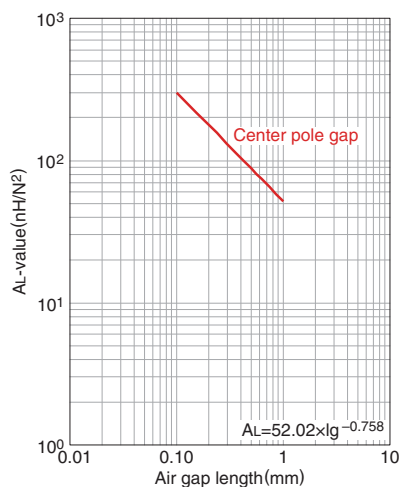
Effective parameter						Electrical characteristics	
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weight	AL-value *	Core loss
C_1 (mm ⁻¹)	ℓ_e (mm)	A_e (mm ²)	V_e (mm ³)	A_{cw} (mm ²)	(g/set)	(nH/N ²) 1kHz 0.5mA	(W)max. 100kHz 200mT 100°C
0.667	15.4	23.1	357	7.54	2.0	2500±25%	0.25

NI limit vs. AL-value (Typ.)



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 (Typ.)

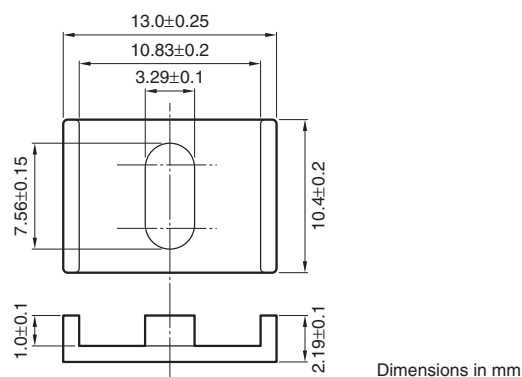


Measuring conditions

- Coil : $\phi 0.18$ 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

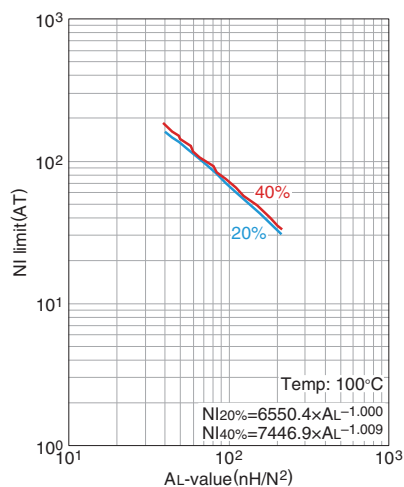
Mn-Zn Planar series **Part No.: PC95EL13X4.4-Z**

■ SHAPES AND DIMENSIONS



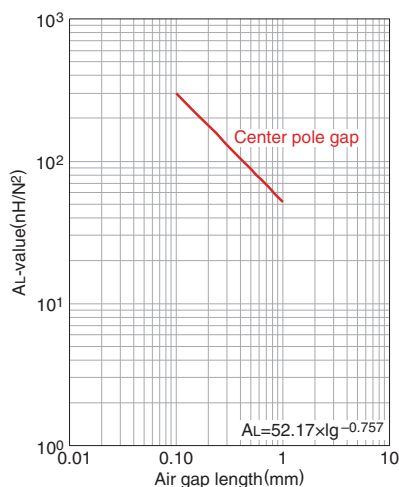
Effective parameter						Electrical characteristics				
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weight	AL-value *	Core loss			
C_1 (mm ⁻¹)	l_e (mm)	A_e (mm ²)	V_e (mm ³)	A_{cw} (mm ²)	(g/set)	(nH/N ²) 1kHz 0.5mA	(W)max. 100kHz 200mT	25°C	80°C	120°C
0.667	15.4	23.1	357	7.54	2.0	3160±25%	0.25	0.2	0.25	

NI limit vs. AL-value (Typ.)



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 (Typ.)

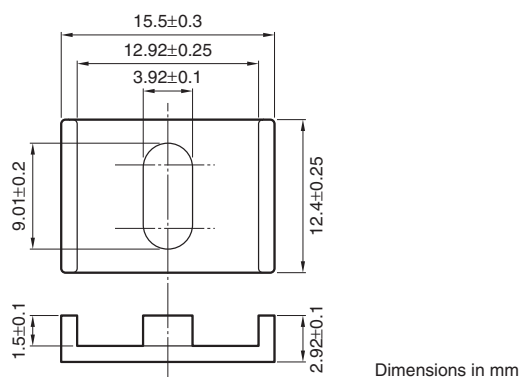


Measuring conditions

- Coil : $\phi 0.18$ 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

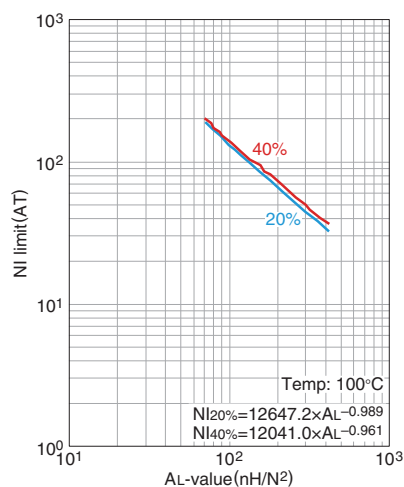
Mn-Zn Planar series Part No.: PC90EL15.5X5.8-Z

SHAPES AND DIMENSIONS



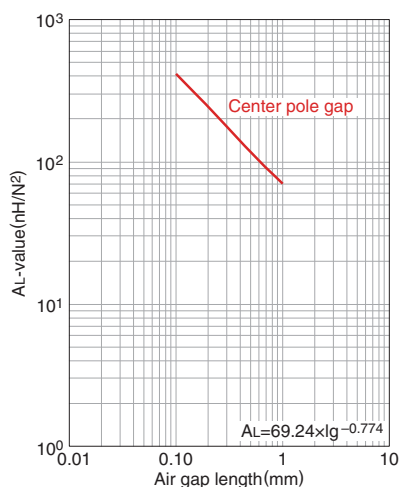
Effective parameter						Electrical characteristics	
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weight	AL-value *	Core loss
C ₁ (mm ⁻¹)	ℓ _e (mm)	A _e (mm ²)	V _e (mm ³)	A _{cw} (mm ²)	(g/set)	(nH/N ²) 1kHz 0.5mA	(W)max. 100kHz 200mT 100°C
0.597	19.6	32.9	646	13.5	3.5	3000±25%	0.5

NI limit vs. AL-value (Typ.)



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 (Typ.)

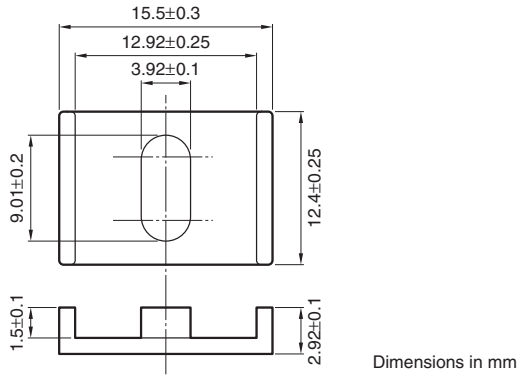


Measuring conditions

- Coil : ø0.18 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

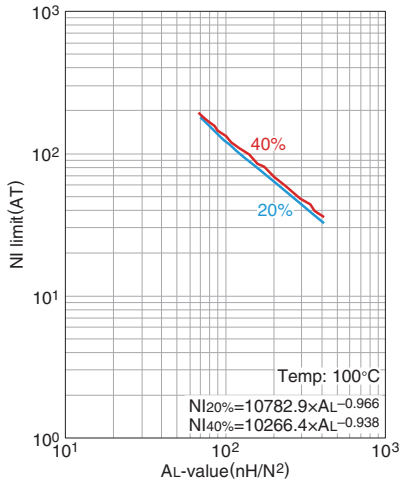
Mn-Zn Planar series Part No.: PC95EL15.5X5.8-Z

SHAPES AND DIMENSIONS



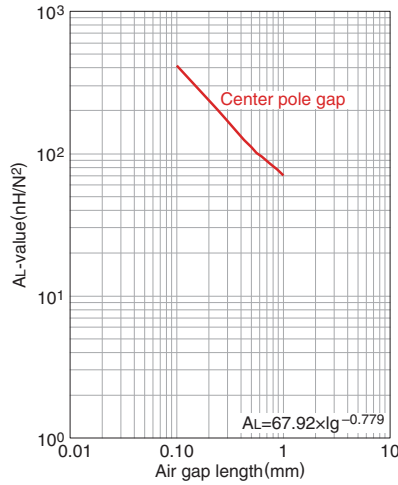
Effective parameter						Electrical characteristics				
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weight	AL-value *	Core loss			
C ₁ (mm ⁻¹)	ℓ _e (mm)	A _e (mm ²)	V _e (mm ³)	A _{cw} (mm ²)	(g/set)	(nH/N ²) 1kHz 0.5mA	(W)max. 100kHz 200mT	25°C	80°C	120°C
0.597	19.6	32.9	646	13.5	3.5	3680±25%	0.5	0.45	0.5	

NI limit vs. AL-value (Typ.)



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 (Typ.)



- Measuring conditions
- Coil : ø0.18 2UEW 100Ts
 - Frequency : 1kHz
 - Current level : 0.5mA
 - Ambient temperature : 25°C

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