

Mn-Zn

Ferrite Cores for Switching Power Supplies

Planar series

EL

ELT

PQI

EIR

ER

ΕI



↑ REMINDERS FOR USING THESE PRODUCTS

Please be sure to read this manual thoroughly before using the products.

The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

When using the products for specific purposes, please first make confirmations in areas such as safety, reliability, and quality.

Please understand that we are not in a position to be held responsible for any damage or the like caused by any use exceeding the range or conditions of this specification sheet or by any use in the specific applications.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When using this product in general-purpose standard applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc to ensure higher safety.



Ferrite Cores for Switching Power Supplies

Product compatible with RoHS directive Halogen-free

Overview of the Planar Series

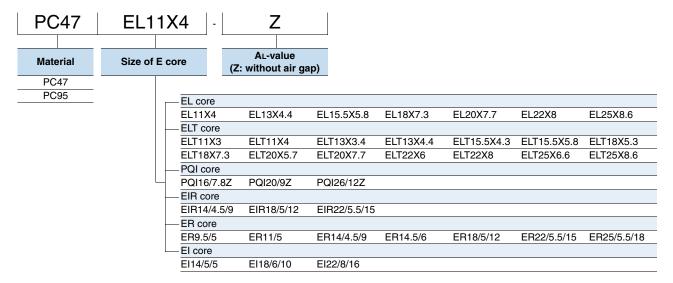
FEATURES

- O Low profile shape suited to PCB mounting
- O Available in a range of various shapes
- O Available in a pair of E core and I core that easily can be mounted on PCBs
- A wide range of sizes is available from 10mm to 25mm

APPLICATION

Low profile DC/DC converters, transformers and coils for use in planers

■ PART NUMBER CONSTRUCTION



RANGE OF USE AND STORAGE TEMPERATURE

Temperature range								
Operating Storage								
temperature temperature								
(°C)	(°C)							
-30 to +105	-30 to +85							

- RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html
- O Halogen-free: Indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.



Mn-Zn EL Cores

R₂: 8 places





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

ELH core

- R1=F1/2

В

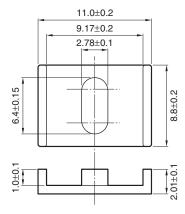
Part No.(ELH+ELH)	Dimensions (mm)											
	Α	В	С	D	E	F1	F ₂	R ₂				
PC95EL11X4-Z	11.00±0.20	2.01±0.10	8.80±0.20	1.00±0.10	9.17±0.20	2.78±0.10	6.40±0.15	0.30				
PC90EL11X4-Z	11.00±0.20	2.01±0.10	0.00±0.20	1.00±0.10	9.17±0.20	2.76±0.10	6.40±0.15	0.30				
PC95EL13X4.4-Z	13.00±0.25	2.19±0.10	10.40±0.20	1.00±0.10	10.83±0.20	3.29±0.10	7.56±0.15	0.30				
PC90EL13X4.4-Z	13.00±0.25	2.19±0.10	10.40±0.20	1.00±0.10	10.05±0.20	3.29±0.10	7.50±0.15	0.30				
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	15.50±0.50	2.32±0.10	12.40±0.25	1.50±0.10	12.92±0.25	3.82±0.10	9.01±0.20	0.30				
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	10.00±0.30	3.05±0.10	14.40±0.25	2.00±0.10	13.00±0.30	4.33±0.10	10.47±0.20	0.50				
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	20.00±0.33	3.63±0.10	10.00±0.30	2.00±0.10	10.07±0.30	5.00±0.15	11.03±0.20	0.50				
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	22.00±0.40	4.02±0.10	17.00±0.30	2.00±0.10	16.33±0.35	5.56±0.15	12.79±0.25	0.50				
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	25.00±0.45	4.29±0.10	20.00±0.35	2.00±0.10	20.03±0.35	0.32±0.13	14.54±0.25	0.50				

	Effective para	ameter						Electrical charac	teristics
	Core factor	Effective cross-sectional area	Effective magnetic path length	Effective core volume	Amin.	Acw	Weigh	AL-value	
Part No.(ELH+ELH)	C1(mm ⁻¹)	Ae(mm²)	ℓe(mm)	Ve(mm³)	(mm²)	(mm²)	(g)	(nH/N ²) 1kHz 0.5mA 100Ts	NA/Jaha arin aran
PC95EL11X4-Z								Without air gap 2400±25%	With air gap
PC90EL11X4-Z	0.826	13.7	16.5	226	15.9	6.39	1.3	1950±25%	80±5% 125±7%
PC95EL13X4.4-Z	0.007	45.4	00.4	057	00.4	7.54	0.0	3160±25%	63±3%
PC90EL13X4.4-Z	0.667	15.4	23.1	357	22.4	7.54	2.0	2500±25%	100±5% 160±7%
PC95EL15.5X5.8-Z	0.507	10.0	20.0	646	01.0	10.5	0.5	3680±25%	63±3%
PC90EL15.5X5.8-Z	0.597	19.6	32.9	040	31.9	13.5	3.5	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% 125±3%
PC90EL18X7.3-Z	0.556	23.0	44.3	1050	43.0	20.9	6.0	3600±25%	200±5%
PC95EL20X7.7-Z	0.469	25.6	54.6	1400	52.9	23.2	7.8	5630±25%	80±3% 125±3%
PC90EL20X7.7-Z	0.409	25.0	54.0	1400	32.9	23.2	7.0	4050±25%	200±5%
PC95EL22X8-Z	0.413	27.3	66.2	1810	64.2	25.5	10	6540±25%	100±3% 160±3%
PC90EL22X8-Z	0.413	21.3	00.2	1010	04.2	20.0	10	5050±25%	250±5%
PC95EL25X8.6-Z	0.350	30.0	85.6	2570	83.0	29.0	15	7540±25%	100±3% 160±3%
PC90EL25X8.6-Z	0.550	30.0	00.0	2370	00.0	23.0	13	5700±25%	250±5%

A 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

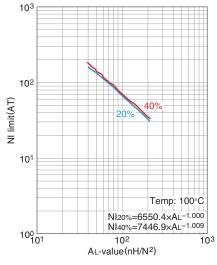
SHAPES AND DIMENSIONS



Dimensions in mm

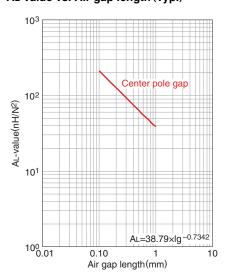
Effective para	meter		Electrical characteristics				
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss
C ₁	ℓe	area Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz 0.5mA	100kHz 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.

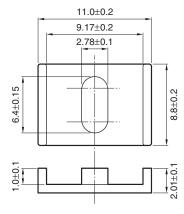
AL-value vs. Air gap length (Typ.)



Measuring conditions
• Coil: ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA

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

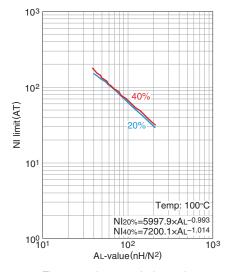
SHAPES AND DIMENSIONS



Dimensions in mm

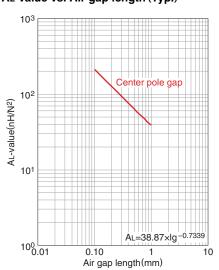
Effective pa	arameter	Electrical characteristics							
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core los	Core loss	
C ₁	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
						0.0	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.)



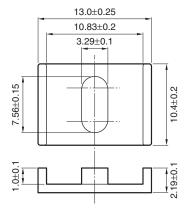
Measuring conditions

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

A 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.: PC90EL13X4.4-Z

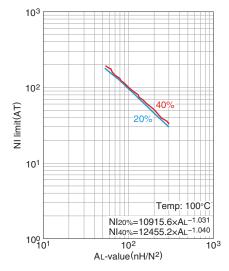
SHAPES AND DIMENSIONS



Dimensions in mm

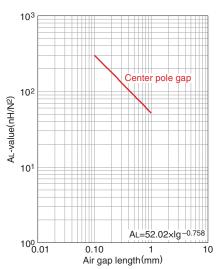
Effective para	ameter		Electrical characteristics				
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss
C ₁	ℓe	Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm²)	(mm³)	(mm²)	(g/set)	(nH/N²) 1kHz 0.5mA	(W)max. 100kHz 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: ø0.18 2UEW 100Ts

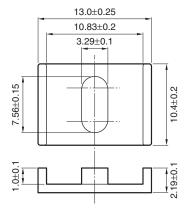
• Frequency: 1kHz

• Current level: 0.5mA

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.: PC95EL13X4.4-Z

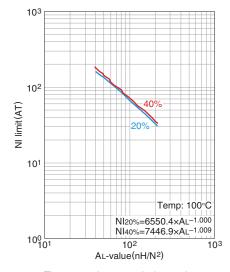
SHAPES AND DIMENSIONS



Dimensions in mm

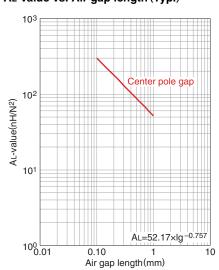
Effective para	ameter		Electrical characteristics						
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss	S	
C ₁	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm²)	(mm ³)	(mm ²)	(g/set)	(nH/N²) 1kHz 0.5mA	(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.)



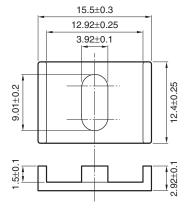
Measuring conditions

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

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.: PC90EL15.5X5.8-Z

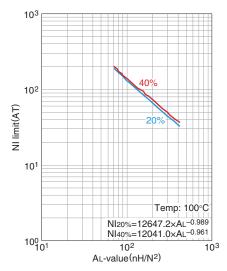
SHAPES AND DIMENSIONS



Dimensions in mm

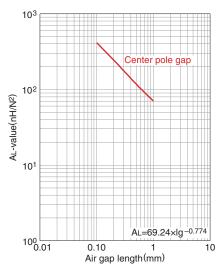
Effective para	meter		Electrical characteristics				
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss
C ₁	ℓe	Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz	100kHz
						0.5mA	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.)

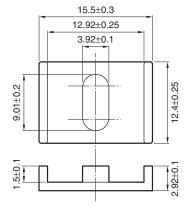


Measuring conditions
• Coil: Ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA
• Ambient temperature: 25°C

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.: PC95EL15.5X5.8-Z

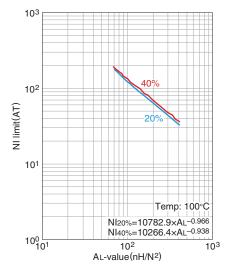
SHAPES AND DIMENSIONS



Dimensions in mm

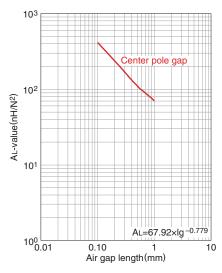
Effective para	meter	Electrical characteristics							
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss		
C ₁	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	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.)



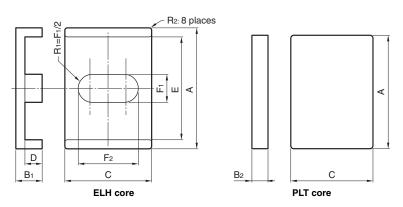
Measuring conditions
• Coil: Ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA
• Ambient temperature: 25°C

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 ELT Cores

SHAPES AND DIMENSIONS





PC95	ELT11X3	-	Z
Material	Size of E core		AL-value (Z: without air gap)

Part No.(ELH+PLT)	Dimensions (mm)									
	Α	B ₁	B ₂	С	D	E	F1	F ₂	R ₂	
PC95ELT11X3-Z	11.00±0.20	2.01±0.10	1.01±0.05	8.80±0.20	1.00±0.10	9.17±0.20	2.78±0.10	6.40±0.15	0.30	
PC90ELT11X3-Z	11.00±0.20	2.01±0.10	1.01±0.05	0.00±0.20	1.00±0.10	9.17±0.20	2.70±0.10	0.40±0.15	0.30	
PC95ELT11X4-Z	11.00±0.20	3.01±0.10	1.01±0.05	8.80±0.20	2.00.0.10	0.17.0.00	0.70.0.10	6 40 . 0 15	0.30	
PC90ELT11X4-Z	11.00±0.20	3.01±0.10	1.01±0.05	6.60±0.20	2.00±0.10	9.17±0.20	2.78±0.10	6.40±0.15	0.30	
PC95ELT13X3.4-Z	13.00±0.25	2.19±0.10	1.19±0.05	10.40±0.20	1.00±0.10	10.83±0.20	3.29±0.10	7.56±0.15	0.30	
PC90ELT13X3.4-Z	13.00±0.25	2.19±0.10	1.13±0.03	10.40±0.20	1.00±0.10	10.0010.20	3.29±0.10	7.00±0.10	0.30	
PC95ELT13X4.4-Z	13.00±0.25	3.19±0.10	1.19±0.05	10.40±0.20	2.00±0.10	10.83±0.20	3.29±0.10	7.56±0.15	0.30	
PC90ELT13X4.4-Z	13.00±0.25	3.19±0.10	1.19±0.05	10.40±0.20	2.00±0.10	10.65±0.20	3.29±0.10	7.50±0.15	0.30	
PC95ELT15.5X4.3-Z	15.50±0.30	2.92±0.10	1.42±0.10	12.40±0.25	1.50±0.10	12.92±0.25	3.92±0.10	9.01±0.20	0.30	
PC90ELT15.5X4.3-Z	15.50±0.30	2.92±0.10	1.42±0.10	12.40±0.25	1.50±0.10	12.92±0.25	3.92±0.10	9.01±0.20	0.30	
PC95ELT15.5X5.8-Z	15 50 . 0 20	4.40.0.10	1 40 . 0 10	10 40 . 0 05	2.00 . 0.10	10.00.0.05	2.02.0.10	0.01.0.00	0.20	
PC90ELT15.5X5.8-Z	15.50±0.30	4.42±0.10	1.42±0.10	12.40±0.25	3.00±0.10	12.92±0.25	3.92±0.10	9.01±0.20	0.30	
PC95ELT18X5.3-Z	18.00±0.30	3.65±0.10	1.65±0.10	14.40±0.25	2.00±0.10	15.00.0.00	4.55.0.10	10.47±0.20	0.30	
PC90ELT18X5.3-Z	16.00±0.30	3.65±0.10	1.65±0.10	14.40±0.25	2.00±0.10	15.00±0.30	4.55±0.10	10.47±0.20	0.30	

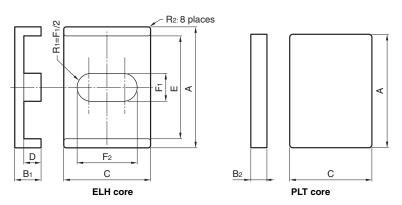
	Effective para	ameter						Electrical charac	teristics
Part No.(ELH+ELH)	Core factor C ₁ (mm ⁻¹)	Effective cross-sectional area Ae(mm²)	Effective magnetic path length ℓe(mm)	Effective core volume Ve(mm³)	Amin. (mm²)	Acw (mm²)	Weigh	(nH/N²) 1kHz 0.5mA 100Ts Without air gap	With air gap
PC95ELT11X3-Z	0.702	11.7	16.6	194	15.9	3.20	1.1	2590±25%	50±3% 80±5%
PC90ELT11X3-Z	0.702	11.7	10.0	194	13.9	3.20	1.1	1750±25%	125±7%
PC95ELT11X4-Z	0.826	13.7	16.5	226	15.9	6.39	1.3	2400±25%	50±3% 80+5%
PC90ELT11X4-Z	0.020	10.7	10.0	220	10.0	0.00	1.0	1700±25%	125±7%
PC95ELT13X3.4-Z	0.578	13.4	23.2	312	22.4	3.77	1.8	3390±25%	63±3% 100±5%
PC90ELT13X3.4-Z	0.070	10.4	20.2	012	<i>LL</i> .¬	0.77	1.0	2400±25%	160±7%
PC95ELT13X4.4-Z	0.667	15.4	23.1	357	22.4	7.54	2.0	3160±25%	63±3% 100±5%
PC90ELT13X4.4-Z	0.007	10.4	20.1	007	<i>LL</i> .¬	7.04	2.0	2300±25%	160±7%
PC95ELT15.5X4.3-Z	0.503	16.6	33.1	550	31.9	6.75	3.0	4340±25%	63±3% 100±3%
PC90ELT15.5X4.3-Z	0.000	10.0	00.1	000	01.0	0.70	0.0	2900±25%	160±5%
PC95ELT15.5X5.8-Z	0.597	19.6	32.9	646	31.9	13.5	3.5	3680±25%	63±3% 100+3%
PC90ELT15.5X5.8-Z	0.007	10.0	02.0	0-10	01.0	10.0	0.0	2200±25%	160±5%
PC95ELT18X5.3-Z	0.446	0.446 19.8 4	44.5	882	43.0 10.5	10.5 5.0	5.0	5330±25%	80±3% 125±3%
PC90ELT18X5.3-Z	0.770	10.0	77.5	002	- 0.0	10.0	5.0	3500±25%	200±5%

A 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.

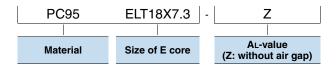


Mn-Zn ELT Cores

SHAPES AND DIMENSIONS







Part No.(ELH+PLT)	Dimensions (mm)										
	A	B ₁	B ₂	С	D	E	F1	F ₂	R ₂		
PC95ELT18X7.3-Z	18.00±0.30	5.65±0.10	1.65±0.10	14.40±0.25	4.00±0.15	15.00±0.30	4.55±0.10	10.47±0.20	0.30		
PC90ELT18X7.3-Z	10.00±0.30	3.03±0.10	1.05±0.10	14.40±0.23	4.00±0.13	13.00±0.30	4.55±0.10	10.47±0.20	0.50		
PC95ELT20X5.7-Z	20.00±0.35	3.83±0.10	1.83±0.10	16.00±0.30	2.00±0.10	16.67±0.30	5.06±0.15	11.63±0.20	0.50		
PC90ELT20X5.7-Z	20.00±0.33	3.03±0.10	1.65±0.10	10.00±0.30	2.00±0.10	10.07±0.30	5.00±0.15	11.03±0.20	0.50		
PC95ELT20X7.7-Z	20.00±0.35	5.83±0.15	1.83±0.10	16.00±0.30	4.00±0.15	16.67±0.30	5.06±0.15	11.63±0.20	0.50		
PC90ELT20X7.7-Z		J.05±0.15	1.03±0.10	10.00±0.30	4.00±0.15	10.07±0.30	J.00±0.15	11.00±0.20	0.50		
PC95ELT22X6-Z	22.00±0.40	4.02±0.10	2.02±0.10	17.60±0.30	2.00±0.10	18.33±0.35	5.56±0.15	12.79±0.25	0.50		
PC90ELT22X6-Z	22.00±0.40	4.02±0.10	2.02±0.10	17.00±0.30	2.00±0.10	16.33±0.35	5.50±0.15	12.79±0.25	0.50		
PC95ELT22X8-Z	22.00±0.40	6.02±0.15	2.02±0.10	17.60±0.30	4.00±0.15	18.33±0.35	5.56±0.15	12.79±0.25	0.50		
PC90ELT22X8-Z	22.00±0.40	0.02±0.15	2.02±0.10	17.00±0.30	4.00±0.15	10.33±0.33	5.50±0.15	12.79±0.25	0.50		
PC95ELT25X6.6-Z	05.00.0.45	4.00.0.10	0.00.0.10	20.00.0.25	2.00.0.10	20.02.0.25	6.32±0.15	14 54 . 0.05	0.50		
PC90ELT25X6.6-Z	25.00±0.45	4.29±0.10	2.29±0.10	20.00±0.35	2.00±0.10	20.83±0.35	0.32±0.15	14.54±0.25	0.50		
PC95ELT25X8.6-Z	25.00±0.45	05.00.0.45	0.00.040	20.00±0.35	4.00±0.15	5 00 00 . 0 05	6.32±0.15	14.54.0.05	0.50		
PC90ELT25X8.6-Z	25.00±0.45	6.29±0.15	2.29±0.10	20.00±0.35	4.00±0.15	20.83±0.35	0.32±0.15	14.54±0.25	0.50		

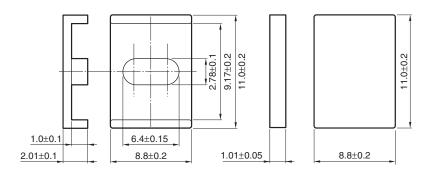
	Effective para	ameter						Electrical charac	teristics
Part No.(ELH+ELH)	Core factor C ₁ (mm ⁻¹)	Effective cross-sectional area Ae(mm²)	Effective magnetic path length ℓe(mm)	Effective core volume Ve(mm³)	Amin. (mm²)	Acw (mm²)	Weigh (g)	(nH/N²) 1kHz 0.5mA 100Ts	1
PC95ELT18X7.3-Z								Without air gap	With air gap 80±3%
PC90ELT18X7.3-Z	0.538	23.8	44.3	1050	43.0	20.9	6.0	3100±25%	125±3% 200±5%
PC95ELT20X5.7-Z	0.000	01.0	540	1100	50.0	11.0	0.7	6270±25%	80±3%
PC90ELT20X5.7-Z	0.393	21.6	54.9	1180	52.9	11.6	6.7	4150±25%	125±3% 200±5%
PC95ELT20X7.7-Z	0.469	25.6	54.6	1400	52.9	23.2	7.8	5630±25%	80±3% 125±3%
PC90ELT20X7.7-Z	0.409	25.0	34.0	1400	32.9	20.2	7.0	3900±25%	200±5%
PC95ELT22X6-Z	0.351	23.4	66.6	1560	64.2	12.8	9.0	7250±25%	100±3% 160±3%
PC90ELT22X6-Z	0.001	20.4	00.0	1000	04.2	12.0	0.0	4800±25%	250±5%
PC95ELT22X8-Z	0.413	27.3	66.2	1810	64.2	25.5	10	6540±25%	100±3% 160+3%
PC90ELT22X8-Z	0.410	27.0	00.2	1010	07.2	20.0	10	4250±25%	250±5%
PC95ELT25X6.6-Z	0.302	26.0	86.0	2230	83.0	14.5	13	8600±25%	100±3% 160±3%
PC90ELT25X6.6-Z	0.002	20.0	00.0	2200	00.0	17.0	10	6100±25%	250±5%
PC95ELT25X8.6-Z	0.350	30.0	85.6	2570	83.0	29.0	15	7540±25%	100±3% 160±3%
PC90ELT25X8.6-Z	0.550	30.0	00.0	2370	00.0	23.0	13	5400±25%	250±5%

A 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.: PC90ELT11X3-Z

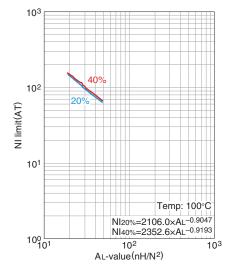
SHAPES AND DIMENSIONS



Dimensions in mm

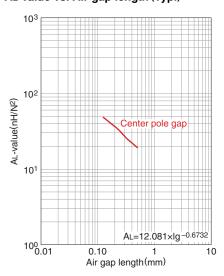
Effective p	arameter	Electrical characteristics					
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss
C1	ℓe	area Ae	Ve	core Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz 0.5mA	100kHz 200mT
						0.0m/	100°C
0.702	11.7	16.6	194	3.20	1.1	1750±25%	0.15

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

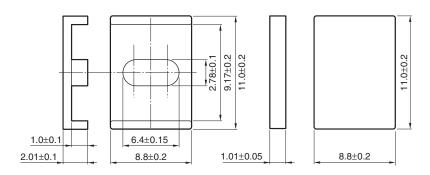
- Coil: ø0.18 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

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.: PC95ELT11X3-Z

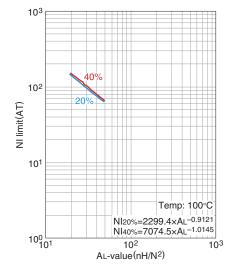
SHAPES AND DIMENSIONS



Dimensions in mm

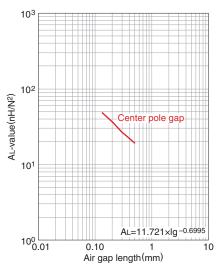
Effective pa	rameter	Electrical characteristics							
Core factor	Effective magnetic path length	Effective cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss	S	
		area		core					
C1	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz	100kHz		
						0.5mA	200mT		
							25°C	80°C	120°C
0.702	11.7	16.6	194	3.20	1.1	2590±25%	0.14	0.12	0.14

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

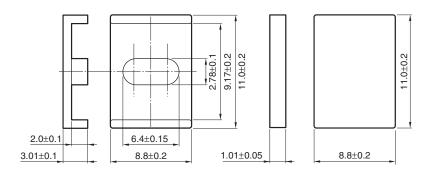
• Current level: 0.5mA

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.: PC90ELT11X4-Z

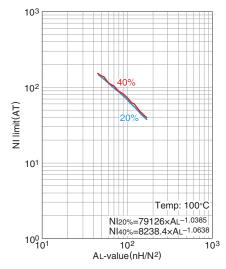
SHAPES AND DIMENSIONS



Dimensions in mm

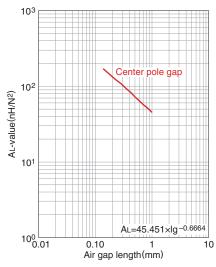
Effective para	ameter	Electrical characteristics					
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss
C ₁	ℓe	Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz 0.5mA	100kHz 200mT
						Ciona t	100°C
0.826	13.7	16.5	226	6.39	1.3	1700±25%	0.18

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

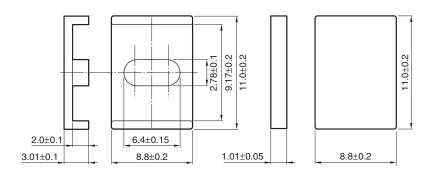
• Current level: 0.5mA

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.: PC95ELT11X4-Z

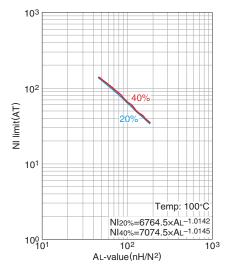
SHAPES AND DIMENSIONS



Dimensions in mm

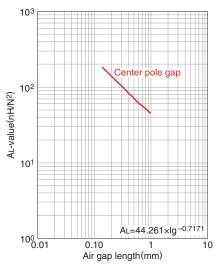
Effective pa	rameter					Electrical characteristics			
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss	s	
C ₁	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm²)	(mm ³)	(mm²)	(g/set)	(nH/N ²) 1kHz 0.5mA	(W)max. 100kHz 200mT	ı	
							25°C	80°C	120°C
0.826	13.7	16.5	226	6.39	1.3	2400±25%	0.16	0.15	0.16

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

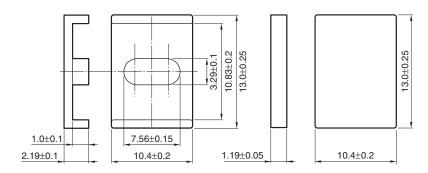
• Frequency : 1kHz

• Current level: 0.5mA

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.: PC90ELT13X3.4-Z

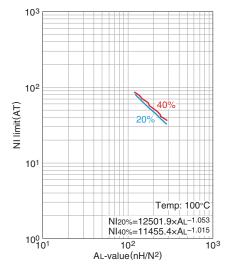
SHAPES AND DIMENSIONS



Dimensions in mm

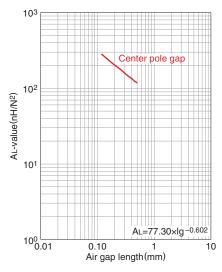
Effective para	ameter	Electrical characteristics					
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss
C ₁	ℓe	area Ae	Ve	core Acw			
(mm ⁻¹)	(mm)	(mm²)	(mm ³)	(mm²)	(g/set)	(nH/N ²)	(W)max.
						1kHz 0.5mA	100kHz 200mT
							100°C
0.578	13.4	23.2	312	3.77	1.8	2400±25%	0.3

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.)

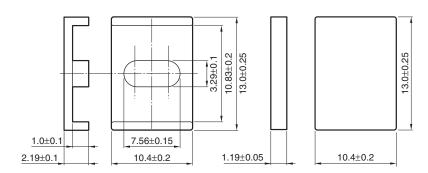


Measuring conditions
• Coil: ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA



Mn-Zn Planar series Part No.: PC95ELT13X3.4-Z

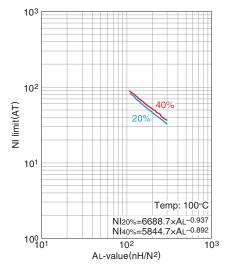
SHAPES AND DIMENSIONS



Dimensions in mm

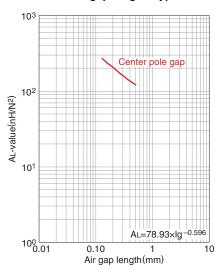
Effective pa	arameter	Electrical characteristics							
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core los	s	
C1	ℓe	area Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
0.578	13.4	23.2	312	3.77	1.8	3390±25%	0.3	0.28	0.3

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

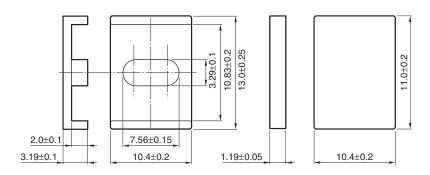
• Frequency: 1kHz

Current level : 0.5mA



Mn-Zn Planar series Part No.: PC90ELT13X4.4-Z

SHAPES AND DIMENSIONS

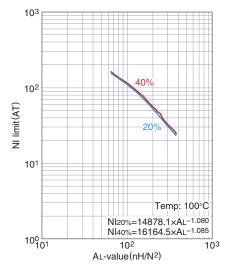


Electrical characteristics

Dimensions in mm

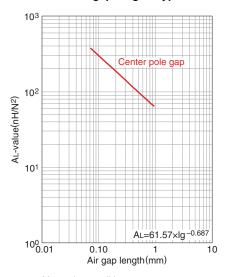
Effective para	meter	Electrical characteristics					
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss
C ₁	ℓe	Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz 0.5mA	100kHz 200mT
							100°C
0.667	15.4	23.1	357	7.54	2.0	2300±25%	0.3

NI limit vs. AL-value (Typ.)



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

AL-value vs. Air gap length (Typ.)



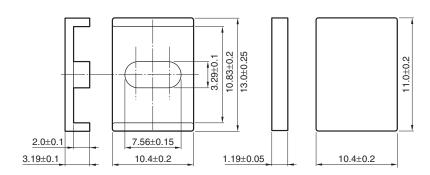
Measuring conditions • Coil: ø0.18 2UEW 100Ts • Frequency : 1kHz • Current level: 0.5mA • Ambient temperature : 25°C

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.: PC95ELT13X4.4-Z

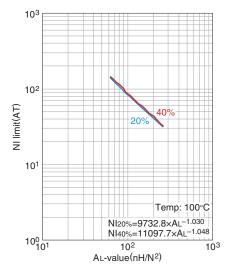
SHAPES AND DIMENSIONS



Dimensions in mm

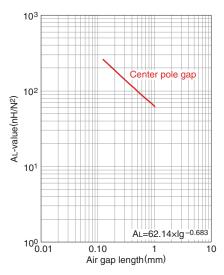
Effective pa	arameter	Electrical characteristics							
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core los	s	
C1	ℓe	area Ae	Ve	core Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
0.667	15.4	23.1	357	7.54	2.0	3160±25%	0.3	0.28	0.3

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.)

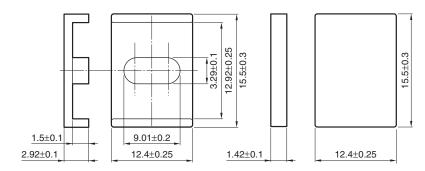


Measuring conditions
• Coil: ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA

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.: PC90ELT15.5X4.3-Z

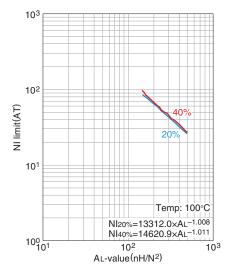
SHAPES AND DIMENSIONS



Dimensions in mm

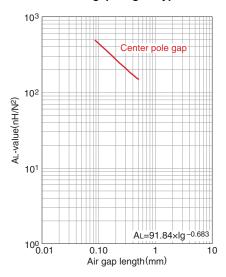
Effective pa	rameter	Electrical characteristics					
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss
C1	ℓe	area Ae	Ve	core Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz 0.5mA	100kHz 200mT
							100°C
0.503	16.6	33.1	550	6.75	3.0	2900±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.)



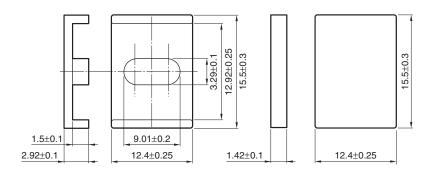
Measuring conditions
• Coil: ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA

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.: PC95ELT15.5X4.3-Z

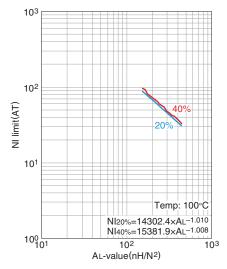
SHAPES AND DIMENSIONS



Dimensions in mm

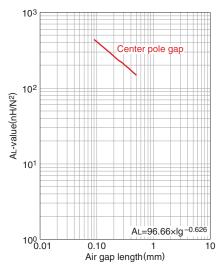
Effective pa	arameter					Electrical characteristics			
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss		
C1	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
0.503	16.6	33.1	550	6.75	3.0	4340±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.)



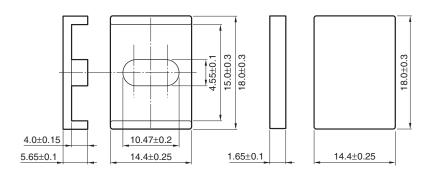
Measuring conditions
• Coil: ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA

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.: PC90ELT18X7.3-Z

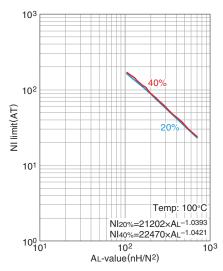
SHAPES AND DIMENSIONS



Dimensions in mm

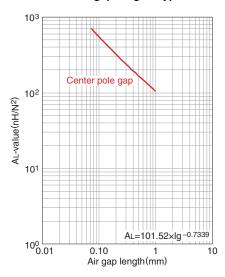
Effective par	rameter					Electrical characteristics		
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss	
C1	ℓe	area Ae	Ve	core Acw				
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.	
						1kHz 0.5mA	100kHz 200mT	
							100°C	
0.538	23.8	44.3	1050	20.9	6.0	3100±25%	0.7	

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

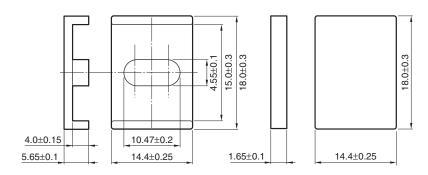
• Frequency : 1kHz

• Current level : 0.5mA

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.: PC95ELT18X7.3-Z

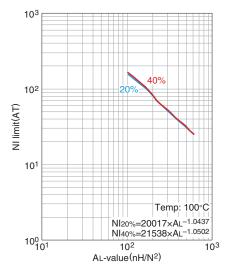
SHAPES AND DIMENSIONS



Dimensions in mm

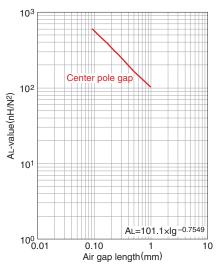
Effective pa	arameter					Electrical characteristics			
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss		
C1	ℓe	area Ae	Ve	core Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
0.538	23.8	44.3	1050	20.9	6.0	4760±25%	0.6	0.55	0.6

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

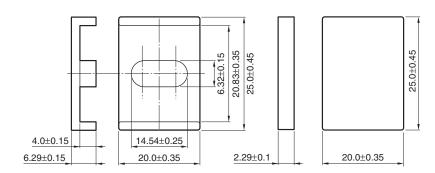
• Frequency: 1kHz

• Current level : 0.5mA

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.: PC90ELT25X8.6-Z

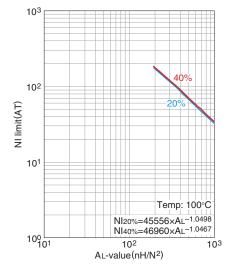
SHAPES AND DIMENSIONS



Dimensions in mm

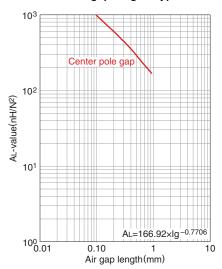
Effective pa	arameter					Electrical charac	Electrical characteristics		
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss		
C ₁	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm²)	(mm ³)	(mm²)	(g/set)	(nH/N ²) 1kHz 0.5mA	(W)max. 100kHz 200mT 100°C		
0.350	30.0	85.6	2570	29.0	15	5400±25%	1.8		

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

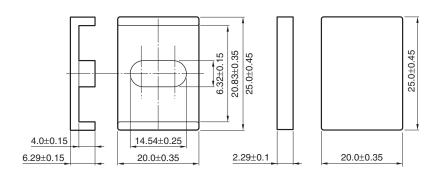
• Current level : 0.5mA

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.: PC95ELT25X8.6-Z

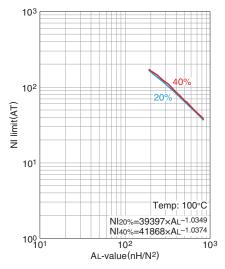
SHAPES AND DIMENSIONS



Dimensions in mm

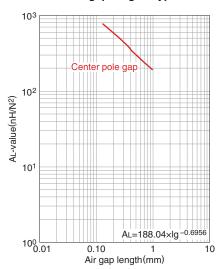
Effective pa	arameter					Electrical characteristics			
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss		
C1	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
0.350	30.0	85.6	2570	29.0	15	7540±25%	1.6	1.5	1.6

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.)



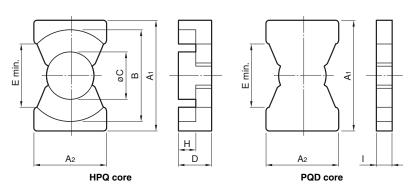
Measuring conditions
• Coil: Ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA
• Ambient temperature: 25°C

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 PQI Cores

SHAPES AND DIMENSIONS





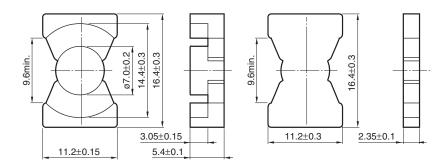
PC95	PQI16/7.8Z -	12
Material	Size of E core	AL-value (Z: without air gap)

Part No.(HPQ+PQD)	Dimensions (mm)											
	A 1	A 2	В	øС	D	E min.	Н	1				
PC95PQI16/7.8Z-12	16.40±0.30	11.20±0.30	14.40±0.30	7.00±0.20	5.40±0.10	9.60	3.05±0.15	2.35±0.10				
PC90PQI16/7.8Z-12	10.40±0.30	11.20±0.30	14.40±0.30	7.00±0.20	5.40±0.10	9.00	3.05±0.15	2.35±0.10				
PC95PQI20/9Z-12	20.50±0.40	14.00±0.40	18.00±0.40	8.80±0.20	6.00±0.10	12.00	3.05±0.15	2.95±0.10				
PC90PQI20/9Z-12	20.50±0.40	14.00±0.40	16.00±0.40	6.60±0.20	6.00±0.10	12.00	3.05±0.15	2.95±0.10				
PC95PQI26/12Z-12	26.50±0.45	19.00±0.45	22.50±0.45	12.00±0.20	7.30±0.10	15.50	3.10±0.15	4.20±0.10				
PC90PQI26/12Z-12	26.50±0.45	19.00±0.45	22.50±0.45	12.00±0.20	7.30±0.10	15.50	3.10±0.15	4.20±0.10				

	Effective par	ameter						Electrical charac	teristics
	Core factor	Effective cross-sectional area	Effective magnetic path length	Effective core volume	Amin.	Acw	Weigh	AL-value	
Part No.(ELH+ELH)	C1(mm ⁻¹)	Ae(mm²)	ℓe(mm)	Ve(mm ³)	(mm²)	(mm²)	(g)	(nH/N ²) 1kHz 0.5mA 100Ts	
								Without air gap	With air gap
PC95PQI16/7.8Z-12	0.467	19.5	41.8	815	37.6	11.3	5.0	4910±25%	63±3% 100±5%
PC90PQI16/7.8Z-12	0.407	19.5	41.0	013	37.0	11.3	5.0	3600±25%	160±5% 160±7%
PC95PQI20/9Z-12	0.346	22.9	66.0	1510	59.3	14.0	9.0	7070±25%	100±3%
PC90PQI20/9Z-12	0.340	22.3	00.0	1310	39.3	14.0	9.0	5200±25%	160±5% 250±7%
PC95PQI26/12Z-12	0.224	27.7	123	0440 400	100 100	3 21	11950±25%	100±3%	
PC90PQI26/12Z-12	0.224	21.1	123	3410	109 16.3		21	8600±25%	160±3% 250±5%

Mn-Zn Planar series Part No.: PC90PQI16/7.8Z-12

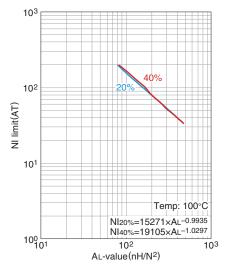
SHAPES AND DIMENSIONS



Dimensions in mm

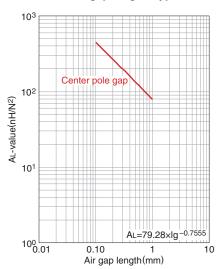
Effective p	arameter					Electrical charac	Electrical characteristics		
Core factor		area		Cross-sectional winding area of core	Weigh	AL-value *	Core loss		
C1	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							100°C		
0.467	19.5	41.8	815	11.3	5.0	3600±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

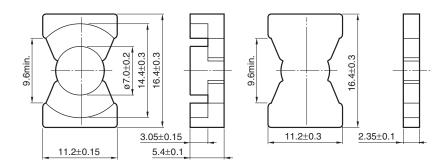
• Current level: 0.5mA

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.: PC95PQI16/7.8Z-12

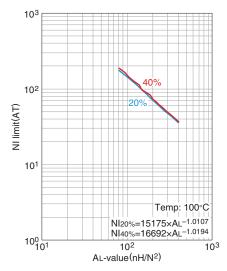
SHAPES AND DIMENSIONS



Dimensions in mm

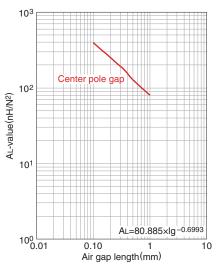
Effective pa	arameter					Electrical characteristics			
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss		
C1	ℓe	area Ae	Ve	core Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
0.467	19.5	41.8	815	11.3	5.0	4910±25%	0.45	0.35	0.45

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

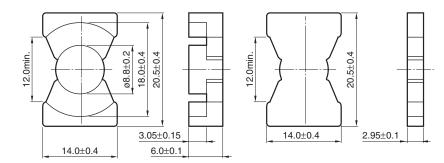
Current level : 0.5mA

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.: PC90PQI20/9Z-12

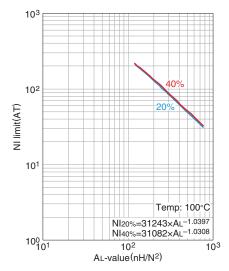
SHAPES AND DIMENSIONS



Dimensions in mm

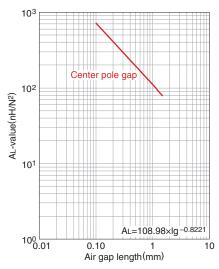
Effective par	rameter					Electrical characteristics		
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss	
C1	ℓe	area Ae	Ve	core Acw				
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.	
						1kHz 0.5mA	100kHz 200mT	
							100°C	
0.346	22.9	66.0	1510	14.0	9.0	5200±25%	0.8	

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

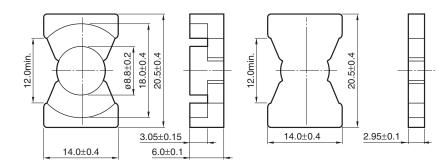
• Current level : 0.5mA

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.: PC95PQI20/9Z-12

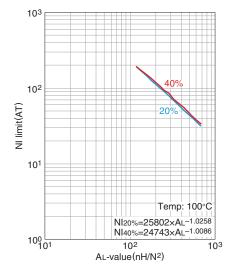
SHAPES AND DIMENSIONS



Dimensions in mm

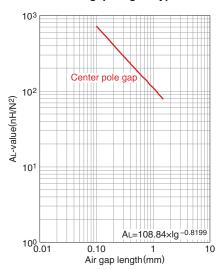
Effective pa	arameter					Electrical characteristics			
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss		
C1	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
0.346	22.9	66.0	1510	14.0	9.0	7070±25%	0.75	0.65	0.75

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.)



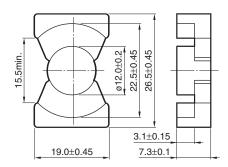
Measuring conditions
• Coil: Ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA
• Ambient temperature: 25°C

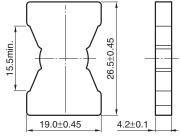
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.



Mn-Zn Planar series Part No.: PC90PQI26/12Z-12

SHAPES AND DIMENSIONS

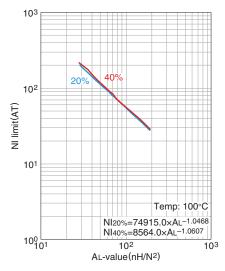




Dimensions in mm

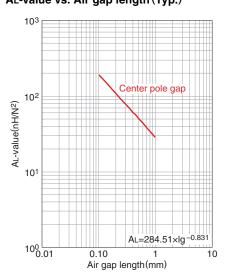
Effective para	ameter		Electrical characteristics				
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss
C1	ℓe	Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm²)	(mm ³)	(mm²)	(g/set)	(nH/N²) 1kHz 0.5mA	(W)max. 100kHz 200mT 100°C
0.224	27.7	123	3410	16.3	21	8600±25%	1.6

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

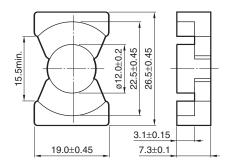
• Frequency : 1kHz

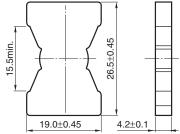
• Current level : 0.5mA

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.: PC95PQI26/12Z-12

SHAPES AND DIMENSIONS

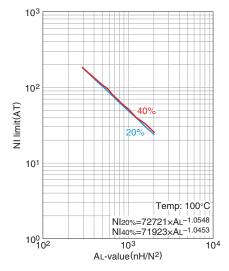




Dimensions in mm

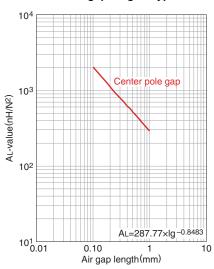
Effective pa	arameter	Electrical charact	Electrical characteristics						
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core los	Core loss	
C ₁	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm²)	(mm ³)	(mm²)	(g/set)	(nH/N ²) 1kHz 0.5mA	, ,	(W)max. 100kHz 200mT	
							25°C	80°C	120°C
0.224	27.7	123	3410	16.3	21	11950±25%	1.5	1.4	1.5

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

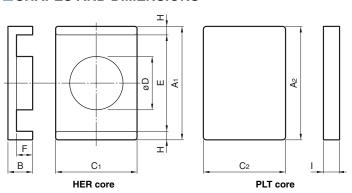
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

FERRITES



Mn-Zn EIR Cores

SHAPES AND DIMENSIONS





PC95	EIR14/4.5/9 -	Z
Material	Size of E core	AL-value (Z: without air gap)

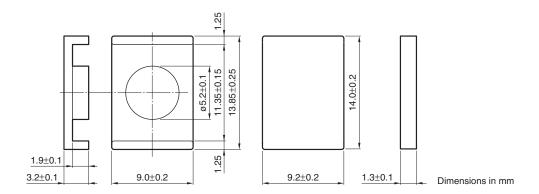
Part No.(ELH+ELH)	Dimensions (mm)											
	A 1	В	C ₁	øD	E	F	Н	A2	C ₂	1		
PC95EIR14/4.5/9-Z	13.85±0.25	3.20±0.10	9.00±0.20	5.20±0.10	11.35±0.15	1.90±0.10	1.25	14.00±0.20	9.20±0.20	1.30±0.10		
PC90EIR14/4.5/9-Z	13.65±0.25	3.20±0.10	9.00±0.20	5.20±0.10	11.35±0.15	1.90±0.10	1.23	14.00±0.20	9.20±0.20	1.30±0.10		
PC95EIR18/5/12-Z	18.15±0.30	10 15 . 0 20	10 15 . 0 20	0.50.040	10.00.0.00	6.00±0.10	15 75 . 0.05	0.00.0.10	1.20	10.00.005	10.00.0.00	1.50.0.10
PC90EIR18/5/12-Z	16.15±0.30	3.50±0.10	12.00±0.20	6.00±0.10	15.75±0.25	2.00±0.10	1.20	18.20±0.25	12.20±0.20	1.50±0.10		
PC95EIR22/5.5/15-Z	22.10±0.35	3.75±0.10	15.25±0.25	6.80±0.10	19.70±0.30	2.00±0.10	1.20	22.20±0.30	15.50±0.20	1.75±0.10		
PC90EIR22/5.5/15-Z	22.10±0.35	3.73±0.10	13.23±0.25	0.00±0.10	19.70±0.30	2.00±0.10	1.20	22.20±0.30	15.50±0.20	1.75±0.10		

	Effective parameter								Electrical characteristics	
Port No. (UPO : POP)	factor cross-sectional rarea		Effective magnetic path length	Effective core volume	Amin. Acw		Weigh	AL-value		
Part No.(HPQ+PQD)	C ₁ (mm ⁻¹)	Ae(mm²)	ℓe(mm)	Ve(mm ³)	(mm²)	(mm²)	(g)	(nH/N ²) 1kHz 0.5mA 100Ts Without air gap	With air gap	
PC95EIR14/4.5/9-Z								2800±25%	63±3%	
PC90EIR14/4.5/9-Z	0.679	15.4	22.7	349	21.2	5.84	2.0	2050±25%	100±5% 160±7%	
PC95EIR18/5/12-Z	0.601	10.7	32.8	645	28.3	9.75	3.8	3690±25%	80±3% 125±5%	
PC90EIR18/5/12-Z	0.601	19.7	32.8	045	20.3	9.75	3.0	2500±25%	200±7%	
PC95EIR22/5.5/15-Z	0.505	23.2	46.1	1070	36.3	12.9	6.5	4150±25%	80±3%	
PC90EIR22/5.5/15-Z	0.505	23.2	40.1	1070	30.3	12.3	0.5	3000±25%	125±5% 200±7%	



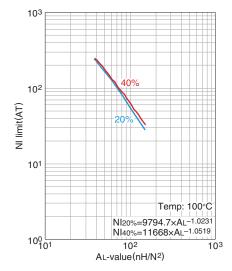
Mn-Zn Planar series Part No.: PC90EIR14/4.5/9-Z

SHAPES AND DIMENSIONS



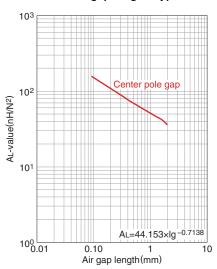
Effectiv	e parameter	Electrical charac	Electrical characteristics					
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss	
C ₁	ℓe	Ae	Ve	Acw				
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.	
						1kHz 0.5mA	100kHz 200mT	
							100°C	
0.679	15.4	22.7	349	5.84	2.0	2050±25%	0.3	

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

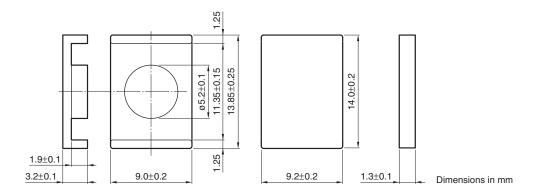
• Current level : 0.5mA

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.



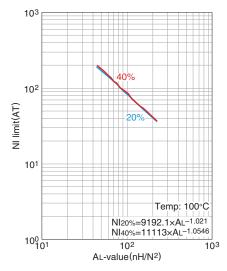
Mn-Zn Planar series Part No.: PC95EIR14/4.5/9-Z

SHAPES AND DIMENSIONS



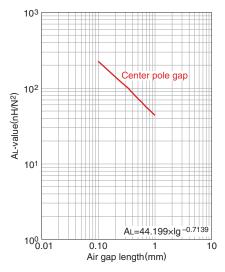
Effective pa	arameter	Electrical characteristics							
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss	Core loss	
C1	ℓe	area Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
0.679	15.4	22.7	349	5.84	2.0	2800±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.)



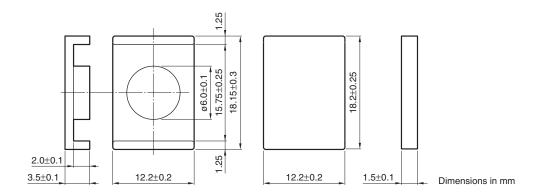
Measuring conditions
• Coil : Ø0.18 2UEW 100Ts
• Frequency : 1kHz
• Current level : 0.5mA
• Ambient temperature : 25°C

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.



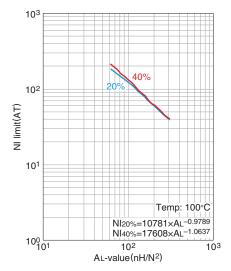
Mn-Zn Planar series Part No.: PC90EIR18/5/12-Z

SHAPES AND DIMENSIONS



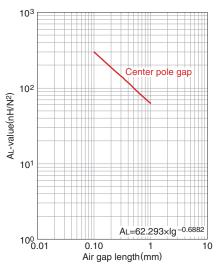
Effective para	meter		Electrical characteristics				
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss
C ₁	ℓe	Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz	100kHz
						0.5mA	200mT
							100°C
0.601	19.7	32.8	645	9.75	3.8	2500±25%	0.45

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

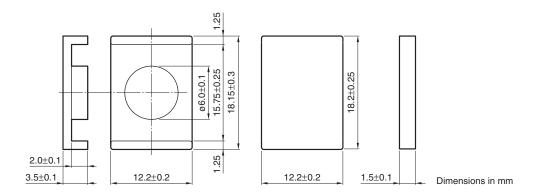
• Current level : 0.5mA

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.



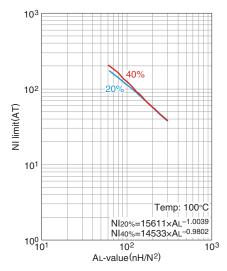
Mn-Zn Planar series Part No.: PC95EIR18/5/12-Z

SHAPES AND DIMENSIONS



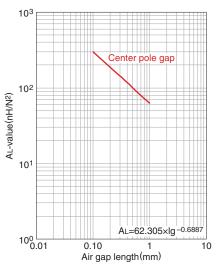
Effective pa	arameter	Electrical charac	Electrical characteristics						
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core los	s	
C ₁	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm²)	(mm³)	(mm²)	(g/set)	(nH/N ²) 1kHz 0.5mA	(W)max 100kHz 200mT		
							25°C	80°C	120°C
0.601	19.7	32.8	645	9.75	3.8	3690±25%	0.4	0.35	0.4

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

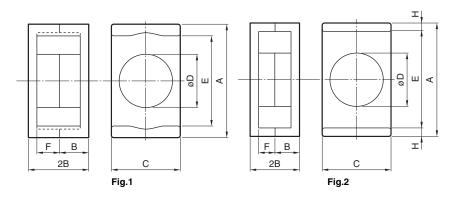
• Current level : 0.5mA

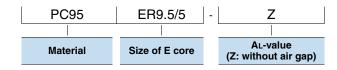
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

Mn-Zn ER Cores

SHAPES AND DIMENSIONS







Part No.(HER+HER)	Core	Dimensions (mm)						
, ,		Α	В	С	øD	E	F	Н
PC95ER9.5/5-Z	Fig.1	9.5 +0	2.5 +0	5.0 +0	3.5 +0	7.0min.	1.6 ^{+0.15}	
PC90ER9.5/5-Z	Fig. i	9.5 _0.3	2.5 _0.1	5.0 _{-0.2}	3.5 _{-0.2}	7.011111.	1.0_0	_
PC95ER11/5-Z	Fig. 1	11.0 +0	2.5 +0	6.0 +0	4.25 +0	7.9min.	1.5 ^{+0.15}	
PC90ER11/5-Z	Fig.1	11.0 _0.35	2.5 _0.1	6.0 _{-0.2}	4.25 _0.25	7.9000	1.5_0	
PC95ER14/4.5/9-Z	Fig.2	13.85±0.25	2.25±0.10	9.00±0.20	5.20±0.10	11.35±0.15	0.95±0.10	1.25
PC90ER14/4.5/9-Z	rig.z	13.05±0.25	2.25±0.10	9.00±0.20	5.20±0.10	11.33±0.13	0.95±0.10	1.25
PC95ER14.5/6-Z	Fig.2	14.5±0.2	3.0 +0	6.7±0.1	4.7±0.1	11.8±0.2	1.65±0.1	1.35
PC90ER14.5/6-Z	rig.z	14.5±0.2	3.0 _{-0.1}	0.7±0.1	4.7±0.1	11.0±0.2	1.05±0.1	1.33
PC95ER18/5/12-Z	Fig. 0	18.15±0.30	2.50±0.10	12.00±0.20	6.00±0.10	15.75±0.25	1.00±0.10	1.20
PC90ER18/5/12-Z	Fig.2	10.15±0.50	2.50±0.10	12.00±0.20	0.00±0.10	13.75±0.25	1.00±0.10	1.20
PC95ER22/5.5/15-Z	Fig.2	22.10±0.35	2.75±0.10	15.25±0.25	6.80±0.10	19.70±0.30	1.00±0.10	1.20
PC90ER22/5.5/15-Z	riy.∠	22.10±0.35	2.75±0.10	13.23±0.25	0.00±0.10	19.70±0.30	1.00±0.10	1.20
PC95ER25/5.5/18-Z	Fig 2	25.30±0.40	2.75±0.10	18.00±0.40	7.00±0.15	22.90±0.40	1.00±0.10	1.20
PC90ER25/5.5/18-Z	Fig.2	25.50±0.40	2.75±0.10	10.00±0.40	7.00±0.15	22.90±0.40	1.00±0.10	1.20

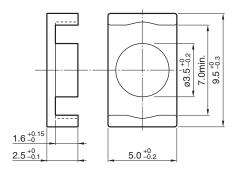
	Effective par	ameter						Electrical charac	teristics
	Core factor	Effective cross-sectional area	Effective magnetic path length	Effective core volume	Amin.	Acw	Weigh	AL-value	
Part No.(HER+HER)	C1(mm-1)	Ae(mm²)	ℓe(mm)	Ve(mm ³)	(mm²)	(mm²)	(g)	(nH/N ²) 1kHz 0.5mA 100Ts	ı
D0055D0 5/5 7								Without air gap	With air gap
PC95ER9.5/5-Z	1.67	14.2	8.47	120	7.6	7.07	0.7	1190±25%	63±5%
PC90ER9.5/5-Z					- 10	1		610min.	100±7%
PC95ER11/5-Z	1.23	14.7	11.9	174	10.3	7.44	1.1	1680±25%	63±5%
PC90ER11/5-Z	1.20	14.7	11.9	174	10.5	7.44	1.1	1300±25%	100±7%
PC95ER14/4.5/9-Z	0.070	45.4	00.7	0.40	04.0	5.04	0.0	2550±25%	63±3%
PC90ER14/4.5/9-Z	0.679	15.4	22.7	349	21.2	5.84	2.0	2100±25%	100±5% 160±7%
PC95ER14.5/6-Z	1.08	19.0	17.6	333	17.3	8.42	2.0	1880±25%	100±5%
PC90ER14.5/6-Z	1.06	19.0	17.0	333	17.3	0.42	2.0	1300±25%	160±7%
PC95ER18/5/12-Z	0.601	19.7	32.8	645	28.3	9.75	3.8	3500±25%	80±3%
PC90ER18/5/12-Z	0.601	19.7	32.0	045	20.3	9.75	3.0	2900±25%	125±5% 200±7%
PC95ER22/5.5/15-Z	0.505	00.0	40.4	1070	00.0	10.0	0.5	4300±25%	80±3%
PC90ER22/5.5/15-Z	0.505	23.2	46.1	1070	36.3	12.9	6.5	3200±25%	125±5% 200±7%
PC95ER25/5.5/18-Z	0.486 26.1 5	53.7	1400	38.5	0.5	15.9 8.5	4400±25%	80±3% 125±3%	
PC90ER25/5.5/18-Z	0.400	20.1	55.7	1400	30.5	15.9	8.5	3400±25%	200±5%

A 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.: PC90ER9.5/5-Z

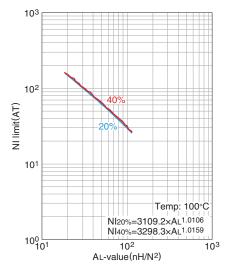
SHAPES AND DIMENSIONS



Dimensions in mm

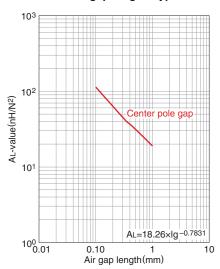
Effective par	ameter		Electrical characteristics				
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss
C ₁	ℓe	Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz 0.5mA	100kHz 200mT
						U.SIIIA	100°C
1.67	14.2	8.47	120	7.07	0.7	610min.	0.1

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

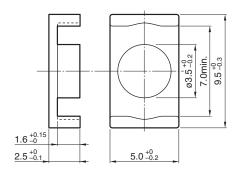
 $\bullet \ \mathsf{Frequency} \ \vdots \ \mathsf{1kHz}$

Current level: 0.5mA

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.: PC95ER9.5/5-Z

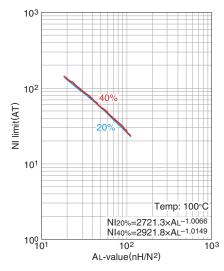
SHAPES AND DIMENSIONS



Dimensions in mm

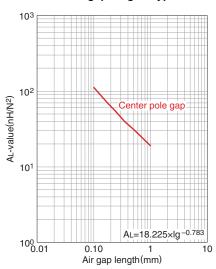
Effective pa	arameter		Electrical characteristics						
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core los	s	
C ₁	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
1.67	14.2	8.47	120	7.07	0.7	1190±25%	0.1	0.09	0.1

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

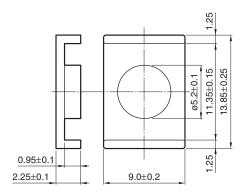
• Frequency: 1kHz

• Current level : 0.5mA

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.: PC90ER14/4.5/9-Z

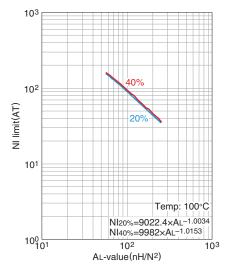
SHAPES AND DIMENSIONS



Dimensions in mm

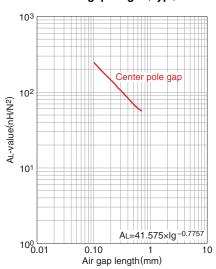
Effective para	meter		Electrical characteristics				
Core factor	Effective magnetic path length		Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss
C ₁	ℓe	Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz	100kHz
						0.5mA	200mT
							100°C
0.679	15.4	22.7	349	5.84	2.0	2100±25%	0.3

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.)

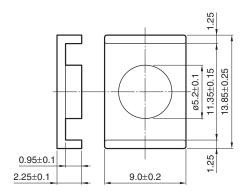


Measuring conditions
• Coil: Ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA

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.: PC95ER14/4.5/9-Z

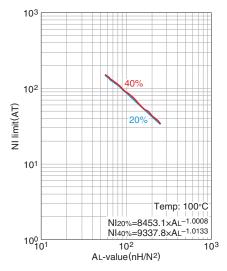
SHAPES AND DIMENSIONS



Dimensions in mm

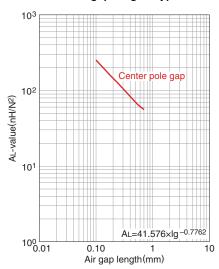
Effective par	ameter		Electrical characteristics						
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core los	s	
C ₁	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
0.679	15.4	22.7	349	5.84	2.0	2550±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: Ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA

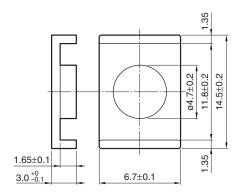
 \bullet Ambient temperature \div 25°C

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.: PC95ER14.5/6-Z

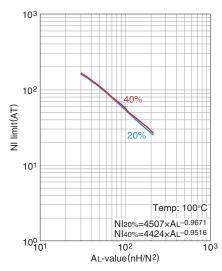
SHAPES AND DIMENSIONS



Dimensions in mm

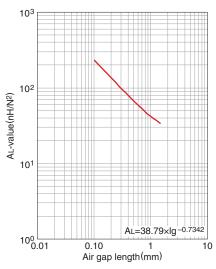
Effective pa	arameter	Electrical characteristics							
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core los	s	
C ₁	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
1.08	19.0	17.6	333	8.42	2.0	3500±25%	0.3	0.28	0.3

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

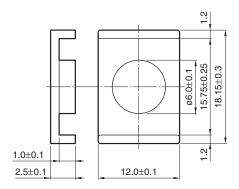
• Current level : 0.5mA

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.: PC90ER18/5/12-Z

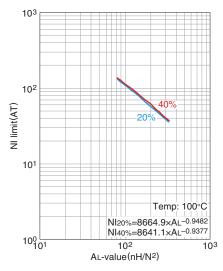
SHAPES AND DIMENSIONS



Dimensions in mm

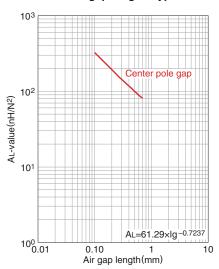
Effective para	meter		Electrical characteristics				
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss
C1	ℓe	Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz	100kHz
						0.5mA	200mT
							100°C
0.601	19.7	32.8	645	9.75	3.8	2900±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

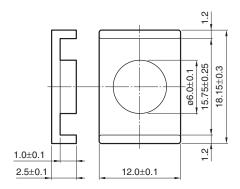
• Frequency: 1kHz

• Current level : 0.5mA

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.: PC95ER18/5/12-Z

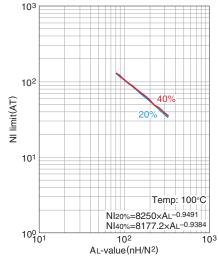
SHAPES AND DIMENSIONS



Dimensions in mm

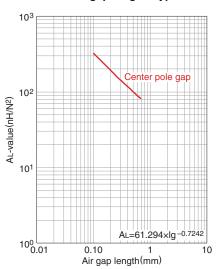
Effective par	ameter		Electrical characteristics						
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss	3	
C1	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm²)	(mm ³)	(mm²)	(g/set)	(nH/N²) 1kHz 0.5mA	(W)max. 100kHz 200mT 25°C	80°C	120°C
0.601	19.7	32.8	645	9.75	3.8	3500±25%	0.45	0.4	0.45

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

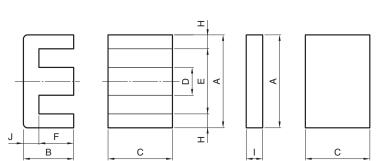
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

FERRITES



Mn-Zn El Cores

SHAPES AND DIMENSIONS





PC95	EI14/5/5	-	Z
Material	Size of E core		A _L -value (Z: without air gap)

HE core

Part No.(HE+PLT)	Dimensions (mm)									
	Α	В	С	D	E	F	Н	1	J	
PC95EI14/5/5-Z	14.00±0.30	3.50±0.10	5.00±0.10	3.00±0.10	11.00±0.25	2.00±0.10	1.50	1.50±0.05	1.50	
PC90EI14/5/5-Z	14.00±0.30	3.30±0.10	5.00±0.10	3.00±0.10	11.00±0.25	2.00±0.10	1.50	1.50±0.05	1.50	
PC95EI18/6/10-Z	40.00.005	4.00±0.10	10.00±0.20	4.00±0.10	14.00±0.30	2.00±0.10	2.00	2.00±0.05	2.00	
PC90El18/6/10-Z	18.00±0.35									
PC95EI22/8/16-Z	01 00 . 0 40	5.70±0.10	15.80±0.30	5.00±0.10	16.80±0.40	3.20±0.10	2.50	2.50±0.05	2.50	
PC90EI22/8/16-Z	21.80±0.40									

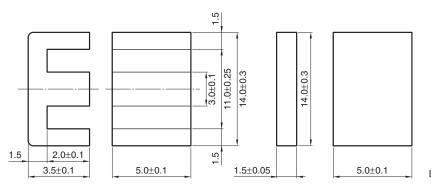
PLT core

	Effective parameter							Electrical characteristics		
	Core factor	Effective cross-sectional area	Effective magnetic path length	Effective core volume	Amin.	Acw	Weigh	A _L -value		
Part No.(HER+HER)	C ₁ (mm ⁻¹)	Ae(mm²)	ℓe(mm)	Ve(mm ³)	(mm²)	(mm²)	(g)	(nH/N ²) 1kHz 0.5mA 100Ts Without air gap	With air gap	
PC95EI14/5/5-Z	1.11	16.7	15.0	251	15.0	8.00	1.3	1550±25%	63±3% 100±5%	
PC90EI14/5/5-Z								1200±25%	160±7%	
PC95EI18/6/10-Z	0.507	20.3	40.0	811	40.0	10.0	4.4	4720±25%	100±3% 160±3%	
PC90El18/6/10-Z	0.507							3100±25%	250±5%	
PC95EI22/8/16-Z	0.330	26.1	79.0	2060	79.0	18.9	11	8010±25%	160±3% 250±3%	
PC90El22/8/16-Z	0.330	20.1	79.0	2000	79.0	10.9		5300±25%	250±3% 315±3%	



Mn-Zn Planar series Part No.: PC90EI14/5/5-Z

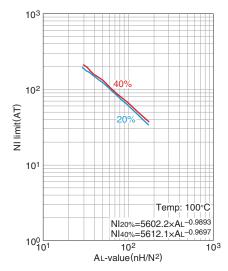
SHAPES AND DIMENSIONS



Dimensions in mm

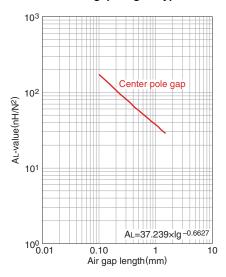
Effective parameter						Electrical characteristics		
Core factor	Effective magnetic path length	Effective cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss	
0.	0-	area	\/-	core				
C1	ℓe	Ae	Ve	Acw				
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.	
						1kHz	100kHz	
						0.5mA	200mT	
							100°C	
1.11	16.7	15.0	251	8.0	1.3	1200±25%	0.3	

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.)



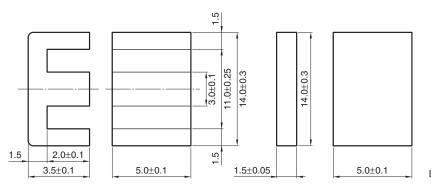
Measuring conditions
• Coil: Ø0.18 2UEW 100Ts
• Frequency: 1kHz
• Current level: 0.5mA
• Ambient temperature: 25°C

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Mn-Zn Planar series Part No.: PC95EI14/5/5-Z

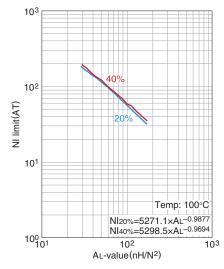
SHAPES AND DIMENSIONS



Dimensions in mm

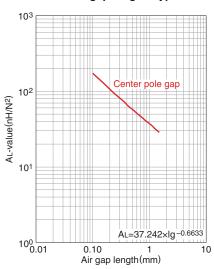
Effective parameter						Electrical characteristics			
Core factor	Effective magnetic path length	Effective cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss		
C ₁	ℓe	area Ae	Ve	core Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N²)	(W)max.		
						1kHz 0.5mA	100kHz 200mT		
							25°C	80°C	120°C
1.11	16.7	15.0	251	8.0	1.3	1550±25%	0.3	0.25	0.3

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

 $\bullet \ \mathsf{Frequency} \ \vdots \ \mathsf{1kHz}$

• Current level : 0.5mA

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.

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