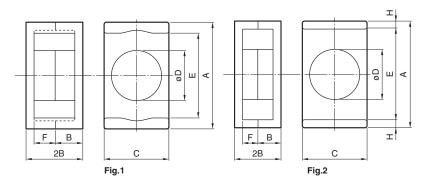
FERRITES

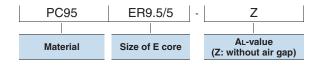
公TDK

Mn-Zn ER Cores

SHAPES AND DIMENSIONS







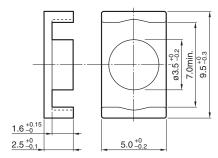
Part No.(HER+HER)	Core	Dimensions (mm)						
		Α	В	С	øD	E	F	Н
PC95ER9.5/5-Z	Fig.1	9.5 +0	2.5 +0	5.0 +0 -0.2	3.5 +0	7.0min.	1.6 +0.15	
PC90ER9.5/5-Z	Fig. i	9.5 _0.3	2.5_0.1	3.0 _{-0.2}	3.3 _{-0.2}	7.011111.	1.0_0	_
PC95ER11/5-Z	Fig.1	11.0 +0 -0.35	2.5 +0	6.0 +0	4.25 +0 -0.25	7.9min.	1.5 +0.15	
PC90ER11/5-Z	rig. i	11.0 _0.35	2.5_0.1	0.0 _0.2	4.25 _0.25	7.911111.	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		13.05±0.25	2.25±0.10	9.00±0.20	5.2010.10	11.00±0.10		1.23
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	1.55
PC95ER18/5/12-Z	Fig.2	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	rig.z	10.15±0.50	2.50±0.10	12.00±0.20	6.00±0.10	15.75±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	10.70+0.20	1.00±0.10	1.20
PC90ER22/5.5/15-Z	Fig.2	22.10±0.35	2.73±0.10	10.20±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	0.75 . 0.40	18.00±0.40	7.00 : 0.15	00.00.0.40	1.00.0.10	1.20
PC90ER25/5.5/18-Z	Fig.2	25.30±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
Part No.(HER+HER)	Core factor C ₁ (mm ⁻¹)	Effective cross-sectional area Ae(mm²)	Effective magnetic path length ℓ e(mm)	Effective core volume Ve(mm³)	Amin. (mm²)	Acw (mm²)	Weigh (g)	(nH/N²) 1kHz 0.5mA 100Ts	Lucu
PC95ER9.5/5-Z								Without air gap	With air gap 63±5%
PC90ER9.5/5-Z	1.67	14.2	8.47	120	7.6	7.07	0.7	610min.	100±7%
PC95ER11/5-Z								1680±25%	63±5%
PC90ER11/5-Z	1.23	14.7	11.9	174	10.3	7.44	1.1	1300±25%	100±7%
PC95ER14/4.5/9-Z	0.670	15.4	22.7	349	21.2	5.84	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% 125±5%
PC90ER18/5/12-Z	0.001	19.7	32.0	043	20.5	9.75	3.0	2900±25%	200±7%
PC95ER22/5.5/15-Z	0.505	23.2	46.1	1070	36.3	12.9	6.5	4300±25%	80±3% 125±5%
PC90ER22/5.5/15-Z	0.505	23.2	40.1	1070	30.3	14.5	0.5	3200±25%	125±5% 200±7%
PC95ER25/5.5/18-Z	0.486	26.1	53.7	1400	38.5	15.9	8.5	4400±25%	80±3% 125±3%
PC90ER25/5.5/18-Z	0.400	20.1	33.7	1400	50.5	10.0	0.5	3400±25%	200±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.: PC90ER9.5/5-Z

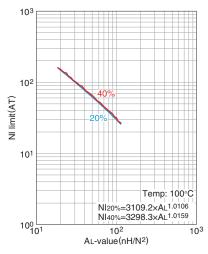
SHAPES AND DIMENSIONS



Dimensions in mm

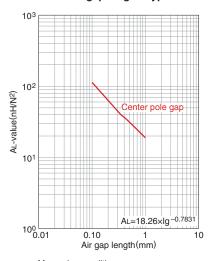
Effective parar	neter		Electrical characteristics				
Core factor	Effective magnetic path length		core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss
C ₁	ℓe		Ve	Acw			
(mm ⁻¹)	(mm)	(mm²)	(mm ³)	(mm²)	(g/set)	(nH/N ²) 1kHz 0.5mA	(W)max. 100kHz 200mT 100°C
1.67	14.2	8.47	120	7.07	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 Auvalue has been made due to the DC superimposition.

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

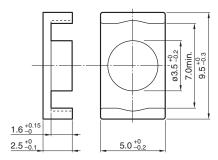


Measuring conditions
• Coil : Ø0.18 2UEW 100Ts
• Frequency : 1kHz
• Current level : 0.5mA
• Ambient temperature : 25°C

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.: PC95ER9.5/5-Z

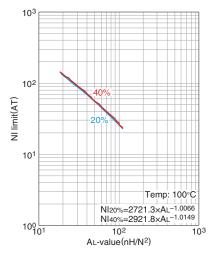
SHAPES AND DIMENSIONS



Dimensions in mm

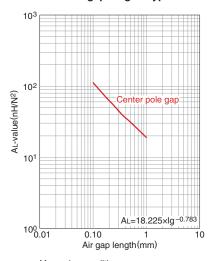
Effective para	meter	Electrical characteristic	cs						
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss	Core loss	
C1	ℓe	Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm²)	(mm³)	(mm²)	(g/set)	(nH/N²) 1kHz 0.5mA	(W)max. 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.)

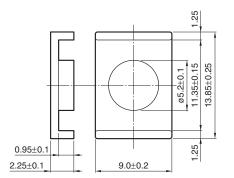


Measuring conditions
• Coil : Ø0.18 2UEW 100Ts
• Frequency : 1kHz
• Current level : 0.5mA
• Ambient temperature : 25°C

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.: PC90ER14/4.5/9-Z

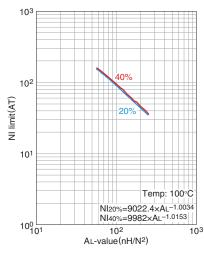
SHAPES AND DIMENSIONS



Dimensions in mm

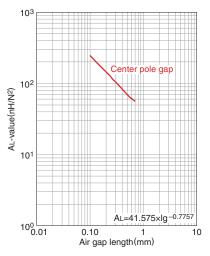
Effective para	meter		Electrical characteristics				
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss
C1	ℓe	Ae	Ve	Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N²) 1kHz	(W)max. 100kHz
						0.5mA	200mT
							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.)

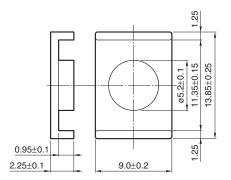


Measuring conditions
• Coil : Ø0.18 2UEW 100Ts
• Frequency : 1kHz
• Current level : 0.5mA
• Ambient temperature : 25°C

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.: PC95ER14/4.5/9-Z

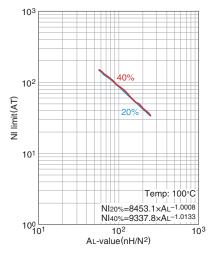
SHAPES AND DIMENSIONS



Dimensions in mm

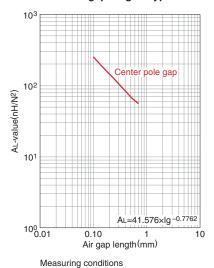
Effective para	meter	Electrical characteristic	cs						
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss	Core loss	
C1	ℓe	area Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz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

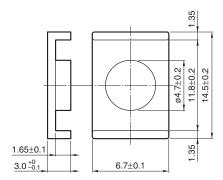
• Current level: 0.5mA

• 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.: PC95ER14.5/6-Z

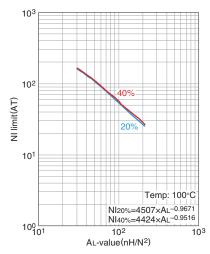
SHAPES AND DIMENSIONS



Dimensions in mm

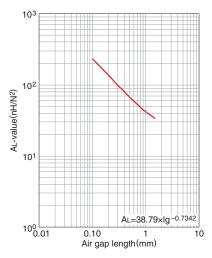
Effective pa	rameter	Electrical characteristic	cs						
Core factor	Effective magnetic path length	cross-sectional	Effective core volume	Cross-sectional winding area of	Weigh	AL-value *	Core loss		
C ₁	ℓe	area Ae	Ve	Acw					
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.		
						1kHz 0.5mA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

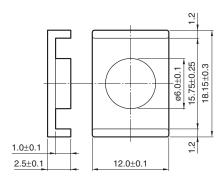
• Current level: 0.5mA

• 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.: PC90ER18/5/12-Z

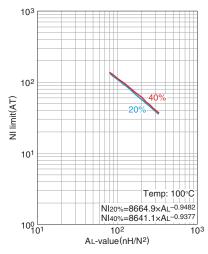
SHAPES AND DIMENSIONS



Dimensions in mm

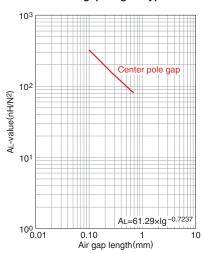
Effective parar	Effective parameter						es
Core factor	Effective magnetic path length		core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss
C1	ℓe		Ve	Acw			
(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(g/set)	(nH/N ²)	(W)max.
						1kHz 0.5mA	100kHz 200mT
						0.0	100°C
0.601	19.7	32.8	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

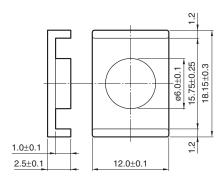
• Current level : 0.5mA

• 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.: PC95ER18/5/12-Z

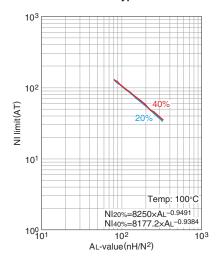
SHAPES AND DIMENSIONS



Dimensions in mm

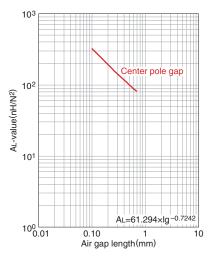
Effective parameter						Electrical characteristic	cs				
Core factor	Effective magnetic path length		core volume	Cross-sectional winding area of core	Weigh	AL-value *	Core loss				
C ₁	ℓe	Ae	Ve	Acw							
(mm ⁻¹)	(mm)	(mm²)	(mm ³)	(mm²)	(g/set)	(nH/N²) 1kHz 0.5mA	(W)max. 100kHz 200mT 25°C	80°C	120°C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

Coil: Ø0.18 2UEW 1001sFrequency: 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.