



March 2025

Mn-Zn

Large Size Ferrite Cores for High Power

Large PQ series

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 | (8) Public information-processing equipment |
| (2) Transportation equipment (electric trains, ships, etc.) | (9) Military equipment |
| (3) Medical equipment | (10) Electric heating apparatus, burning equipment |
| (4) Power-generation control equipment | (11) Disaster prevention/crime prevention equipment |
| (5) Atomic energy-related equipment | (12) Safety equipment |
| (6) Seabed equipment | (13) Other applications that are not considered general-purpose applications |
| (7) Transportation control equipment | |

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.

Large Size Ferrite Cores for High Power

Product compatible with RoHS directive
Halogen-free

Overview of the PQ Series

■ FEATURES

- Our original shape.
- Large size cores for transformers with large power outputs.
- Can also be used in reactors.
- PQ cores require less mounting area as transformers than E or EER cores.

■ APPLICATION

- Large size industrial equipment, transformers for consumer equipment
- Reactors
- Transformers and coils for power supplies (high density, low profile)

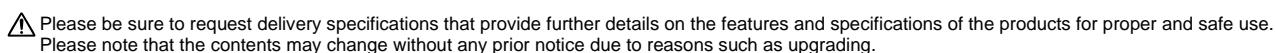
■ PART NUMBER CONSTRUCTION

PE22	PQ	78	x	39	x	42	
Material	Core shape	Width		Height when assembled		Thickness	
PE22	PQ	78		39		42	
PC40		107		87		70	
PC47							
PC95							
PEL95							
PEM95							

■ RANGE OF USE AND STORAGE TEMPERATURE

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

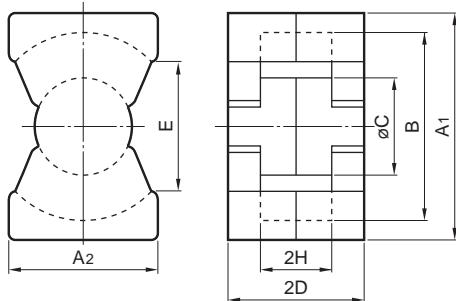
- RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://www.tdk.co.jp/rohs/>
- Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

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Mn-Zn PQ Cores



■ SHAPES AND DIMENSIONS



PC47 PQ60/42 - Z

Material	Size of PQ core	AL-value
		Z Without air gap

Material	Part No.	Dimensions (mm)							
	Shape Dimensions	A1	A2	B min.	φC	2D	E min.	2H	
PC47	PQ60/42-Z	59.0±1.0	39.0±0.7	49.5	23.5±0.5	41.5±0.5	37.8	25.1±0.6	
PC95									
PEL95									
PEM95									
PC47	PQ60/52-Z	59.0±1.0	39.0±0.7	49.5	23.5±0.5	51.5±0.5	37.8	35.1±0.6	
PC95									
PEL95									
PEM95									
PC47	PQ65/44-Z	65.0±1.0	45.0±0.7	55	26.0±0.5	43.5±0.5	40.8	25.5±0.6	
PC95									
PEL95									
PEM95									
PC47	PQ65/54-Z	65.0±1.0	45.0±0.7	55	26.0±0.5	53.5±0.5	40.8	35.5±0.6	
PC95									
PEL95									
PEM95									
PE22	PQ78x39x42	78.5±1.5	42.0±0.8	69.0	25.5±0.5	39.4±0.6	60.0	25.8±1.0	
PC40									
PC95									
PEL95									
PEM95									
PE22	PQ107x87x70	107.0±2.0	70.0±1.5	93.7	41.0±1.0	87.0±1.5	72.5	56.0±1.5	
PC40									
PC95									
PEL95									
PEM95									

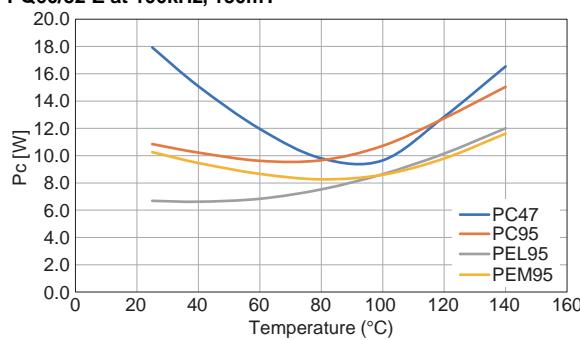
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Mn-Zn PQ Cores

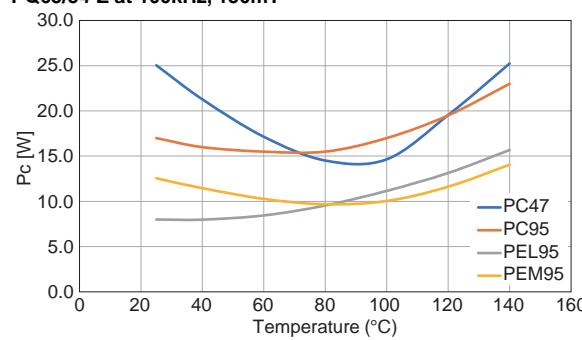
Material	Part No.	Effective parameter		Effective cross-sectional area Ae (mm ²)	Effective magnetic path length Le (mm)	Effective core volume Ve (mm ³)	Weigh (Approx.) (g)	Electrical characteristics		Core loss			
		Core factor C1 (mm ⁻¹)	Core factor C ₂ x10 ⁻² (mm ⁻³)					AL-value (nH/N ²) 1kHz, 0.4A/m 23 °C	(W)mas. 100kHz, 150mT	25 °C	80 °C	100 °C	120 °C
PC47	PQ60/42-Z	0.203	—	483	98.1	47360	265	10,500±25%	—	—	9.5	—	—
PC95								14,300±25%	11.0	10.0	—	12.5	—
PEL95								—	—	—	—	—	—
PEM95								—	—	—	—	—	—
PC47	PQ60/52-Z	0.248	—	477	118	56237	310	8,500±25%	—	—	11.3	—	—
PC95								11,200±25%	13.0	11.8	—	14.9	—
PEL95								12,500±25%	6.7	6.8	—	10.0	—
PEM95								10,000±25%	13.2	9.6	—	9.0	—
PC47	PQ65/44-Z	0.171	—	604	103	62460	355	12,600±25%	—	—	12.5	—	—
PC95								15,500±25%	14.4	13.2	—	16.5	—
PEL95								—	—	—	—	—	—
PEM95								—	—	—	—	—	—
PC47	PQ65/54-Z	0.207	—	597	123	73552	410	10,000±25%	—	—	14.8	—	—
PC95								13,500±25%	17.0	15.5	—	19.5	—
PEL95								16,500±25%	8.0	9.5	—	13.1	—
PEM95								12,500±25%	12.6	9.7	—	11.6	—
PE22	PQ78x39x42	0.2473	0.05153	480	119	56900	304	7940±25	—	—	—	—	—
PC40								9790±25%	—	—	—	—	—
PC95								—	—	—	—	—	—
PEL95								—	—	—	—	—	—
PEM95								—	—	—	—	—	—
PE22	PQ107x87x70	0.1426	0.009989	1428	204	291312	1560	15470±25%	—	—	—	—	—
PC40								18210±25%	—	—	—	—	—
PC95								—	—	—	—	—	—
PEL95								—	—	—	—	—	—
PEM95								—	—	—	—	—	—

Core loss Temperature characteristics (Typ.)

PQ60/52-Z at 100kHz, 150mT



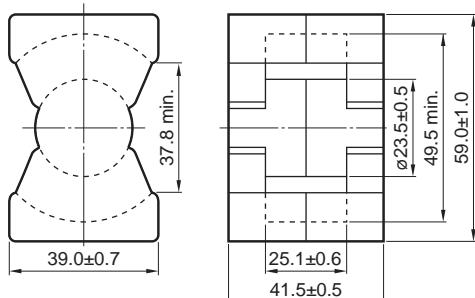
PQ65/54-Z at 100kHz, 150mT



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Mn-Zn PQ series Part No.: PC47PQ60/42-Z

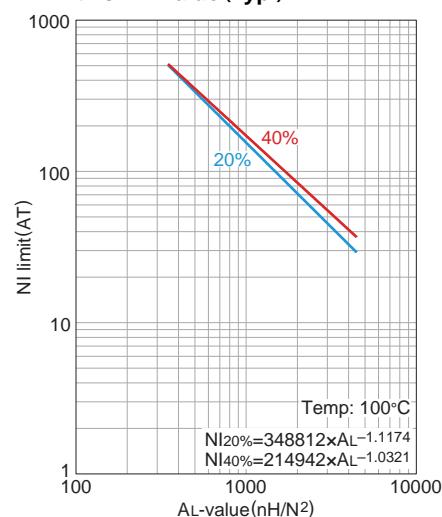
■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics	
Core factor C1 (mm ⁻¹)	Effective magnetic path length l _e (mm)	Effective cross-sectional area A _e (mm ²)	Effective core volume V _e (mm ³)	Cross-sectional center pole area A _{cp} (mm ²)	Minimum cross-sectional center pole area A _{cp min.} (mm ²)	Cross-sectional winding area of core A _{cw} (mm ²)	Weight (g/set)	AL-value * (nH/N ²) 1kHz 0.5mA	Core loss (W)max. 100kHz 150mT 100°C
0.203	98.1	483	47360	433	415	338	265	10,500 ± 25%	9.5

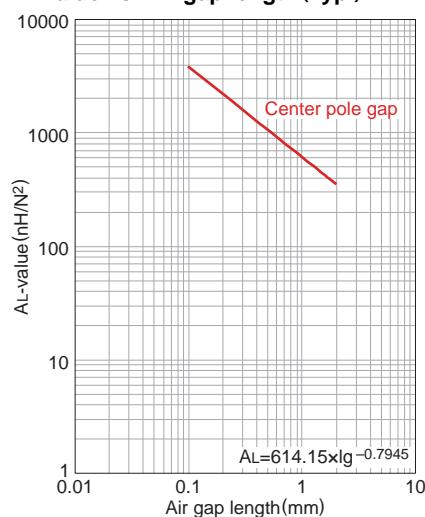
* Coil: ø0.4 2UEW 100Ts

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.

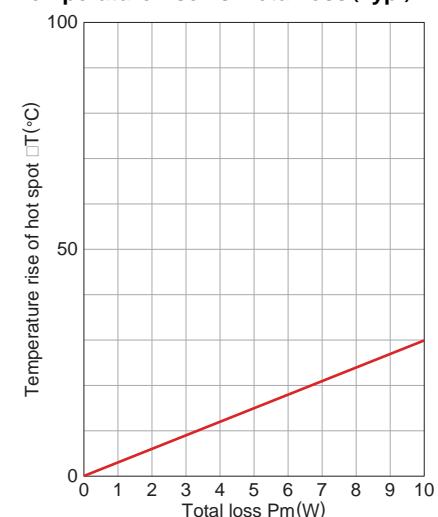
AL-value vs. Air gap length (Typ.)



Measuring conditions

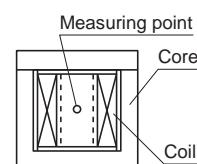
- Coil : ø0.4 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

Temperature rise vs. Total loss (Typ.)



Measuring conditions

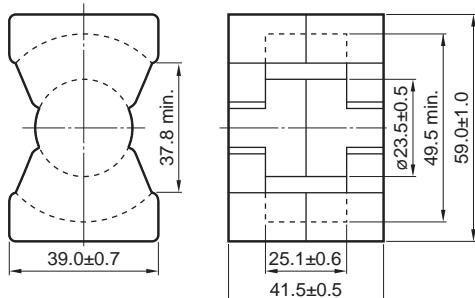
- Room space: approx. 400x300x 300cm
- Ambient temperature : 25°C
- Humidity: 45(%)RH.



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Mn-Zn PQ series Part No.: PC95PQ60/42-Z

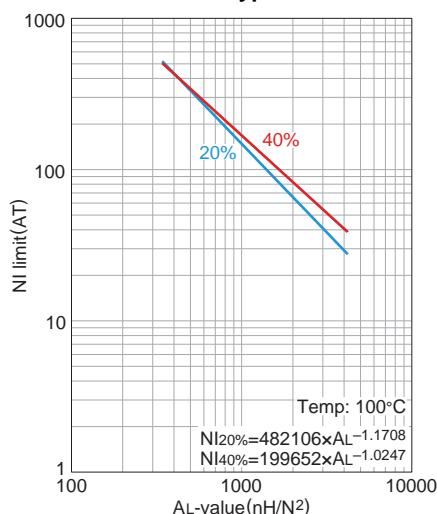
■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics			
Core factor C1 (mm ⁻¹)	Effective magnetic path length l _e (mm)	Effective cross-sectional area A _e (mm ²)	Effective core volume V _e (mm ³)	Cross-sectional center pole area A _{cp} (mm ²)	Minimum cross-sectional center pole area A _{cp min.} (mm ²)	Cross-sectional winding area of core A _{cw} (mm ²)	Weight (g/set)	AL-value * (nH/N ²)	Core loss (W)max. 100kHz 150mT 25°C	80°C	120°C
0.203	98.1	483	47360	433	415	338	265	14,300±25%	11.0	10.0	12.5

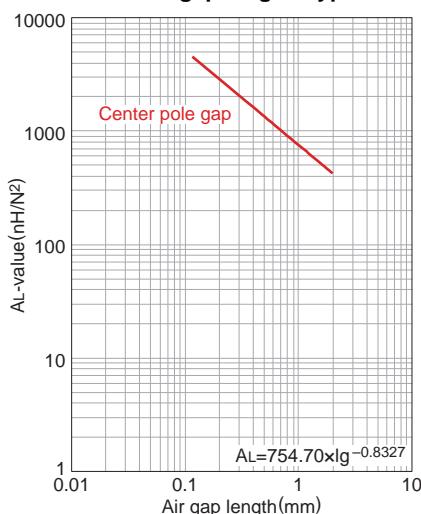
* Coil: Ø0.4 2UEW 100Ts

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.

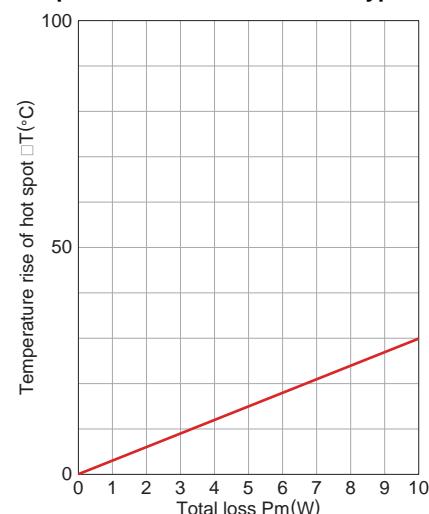
AL-value vs. Air gap length (Typ.)



Measuring conditions

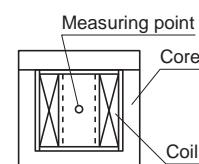
- Coil : Ø0.4 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

Temperature rise vs. Total loss (Typ.)



Measuring conditions

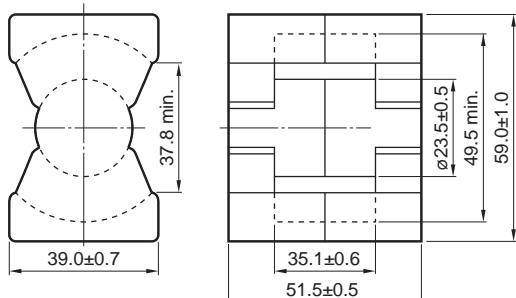
- Room space: approx. 400x300x 300cm
- Ambient temperature : 25°C
- Humidity: 45(%)RH.



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Mn-Zn PQ series Part No.: PC47PQ60/52-Z

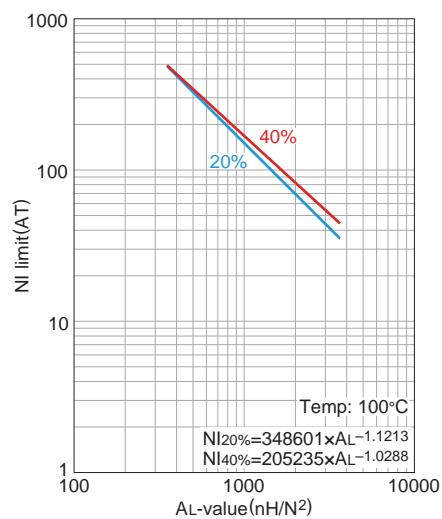
■ SHAPES AND DIMENSIONS



Effective parameter							Electrical characteristics		
Core factor C1 (mm ⁻¹)	Effective magnetic path length l _e (mm)	Effective cross-sectional area Ae (mm ²)	Effective core volume Ve (mm ³)	Cross-sectional center pole area Acp (mm ²)	Minimum cross-sectional center pole area Acp min. (mm ²)	Cross-sectional winding area of core Acw (mm ²)	Weight (g/set)	AL-value * (nH/N ²)	Core loss (W)max. 100kHz 150mT 100°C
0.248	118	477	56237	433	415	473	310	8,500 ± 25%	11.3

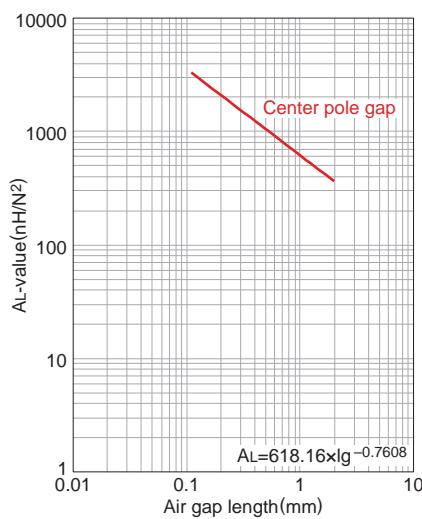
* Coil: Ø0.4 2UEW 100Ts

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.

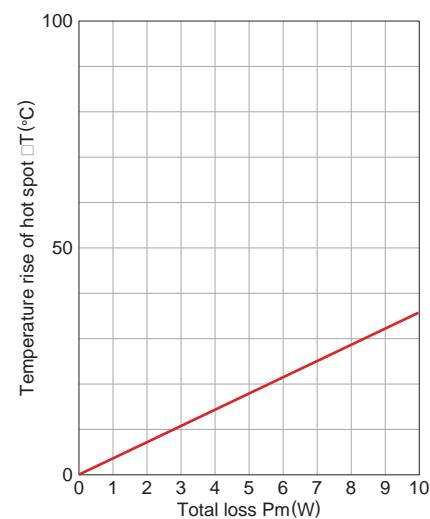
AL-value vs. Air gap length (Typ.)



Measuring conditions

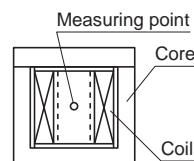
- Coil : Ø0.4 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

Temperature rise vs. Total loss (Typ.)



Measuring conditions

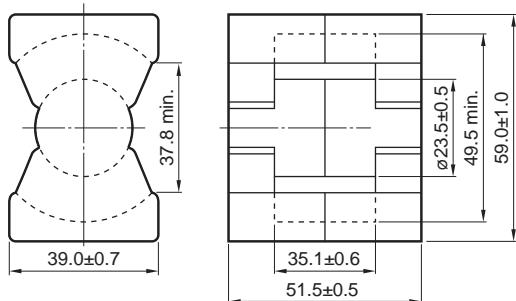
- Room space: approx. 400x300x 300cm
- Ambient temperature : 25°C
- Humidity: 45(%)RH.



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Mn-Zn PQ series Part No.: PC95PQ60/52-Z

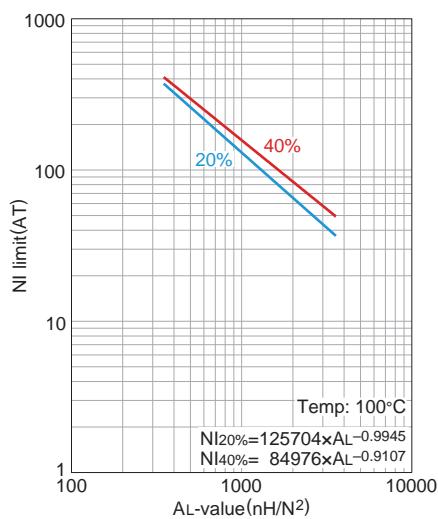
■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics			
Core factor C1 (mm ⁻¹)	Effective magnetic path length l _e (mm)	Effective cross-sectional area A _e (mm ²)	Effective core volume V _e (mm ³)	Cross-sectional center pole area A _{cp} (mm ²)	Minimum cross-sectional center pole area A _{cp min.} (mm ²)	Cross-sectional winding area of core A _{cw} (mm ²)	Weight (g/set)	AL-value * (nH/N ²)	Core loss (W)max. 100kHz 150mT 25°C	80°C	120°C
0.248	118	477	56237	433	415	473	310	11,200 ± 25%	13.0	11.8	14.9

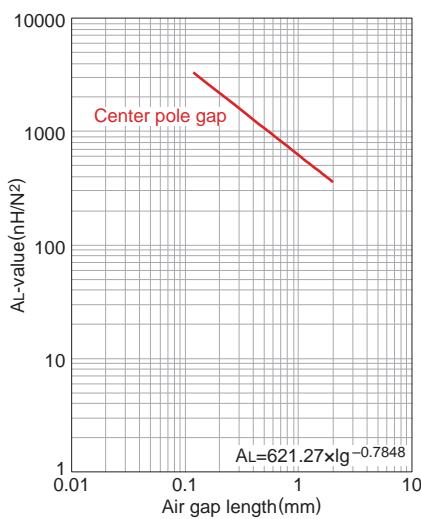
* Coil: Ø0.4 2UEW 100Ts

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.

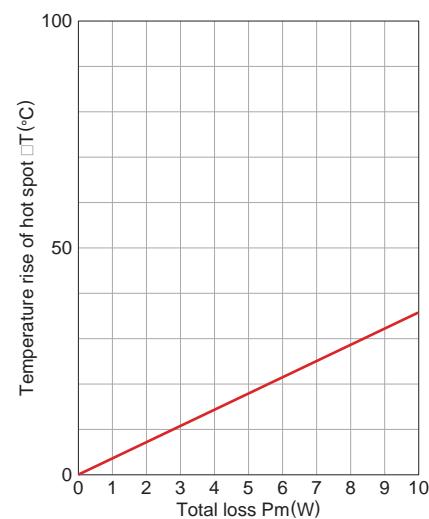
AL-value vs. Air gap length (Typ.)



Measuring conditions

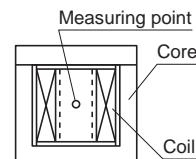
- Coil : Ø0.4 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

Temperature rise vs. Total loss (Typ.)



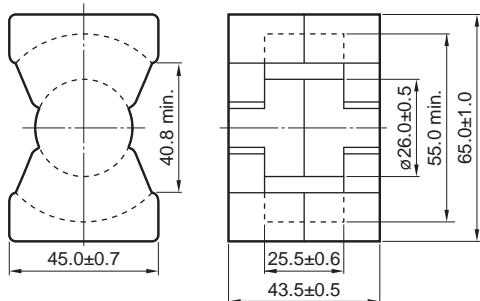
Measuring conditions

- Room space: approx. 400x300x 300cm
- Ambient temperature : 25°C
- Humidity: 45(%)RH.



Mn-Zn PQ series Part No.: PC47PQ65/44-Z

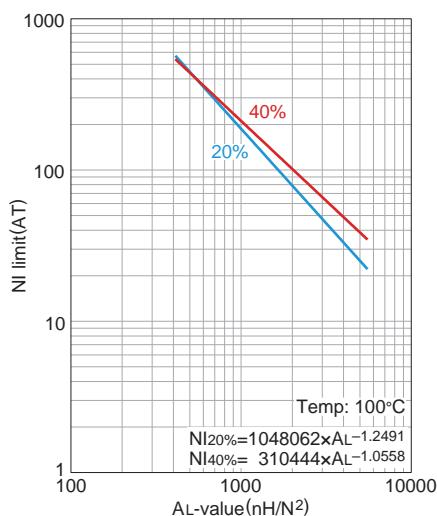
■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics	
Core factor C ₁ (mm ⁻¹)	Effective magnetic path length l _e (mm)	Effective cross-sectional area A _e (mm ²)	Effective core volume V _e (mm ³)	Cross-sectional center pole area A _{cp} (mm ²)	Minimum cross-sectional center pole area A _{cp min.} (mm ²)	Cross-sectional winding area of core A _{cw} (mm ²)	Weight (g/set)	AL-value * (nH/N ²)	Core loss (W)max. 100kHz 150mT 100°C
0.171	103	604	62460	531	511	382	355	12,600 ± 25%	12.5

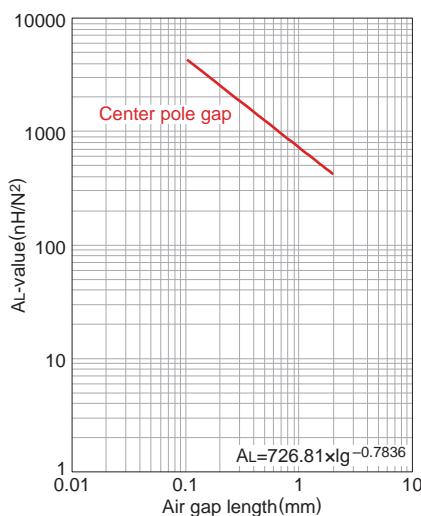
* Coil: Ø0.4 2UEW 100Ts

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.

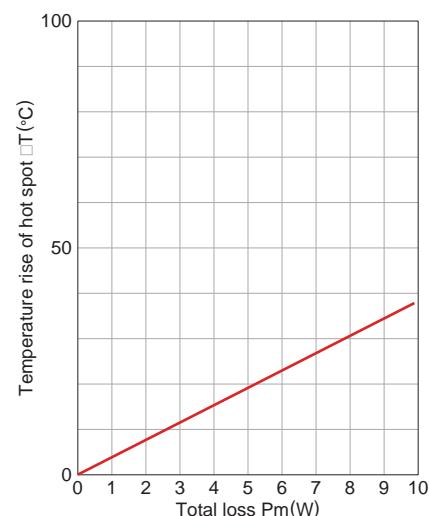
AL-value vs. Air gap length (Typ.)



Measuring conditions

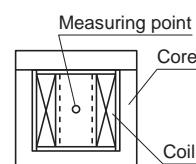
- Coil : Ø0.4 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

Temperature rise vs. Total loss (Typ.)



Measuring conditions

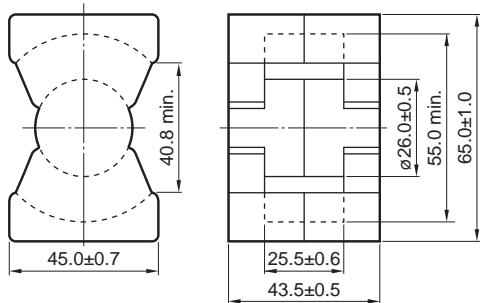
- Room space: approx. 400x300x 300cm
- Ambient temperature : 25°C
- Humidity: 45(%)RH.



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Mn-Zn PQ series Part No.: PC95PQ65/44-Z

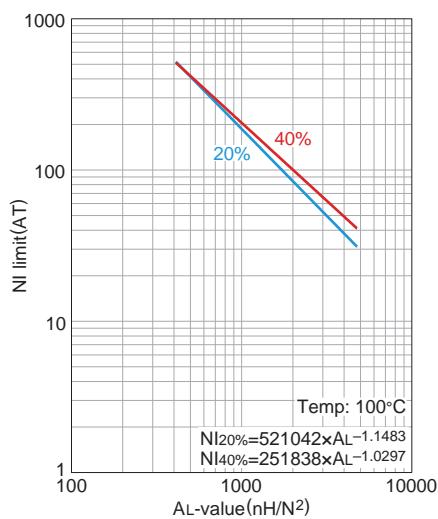
■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics			
Core factor C1 (mm ⁻¹)	Effective magnetic path length l _e (mm)	Effective cross-sectional area A _e (mm ²)	Effective core volume V _e (mm ³)	Cross-sectional center pole area A _{cp} (mm ²)	Minimum cross-sectional center pole area A _{cp min.} (mm ²)	Cross-sectional winding area of core A _{cw} (mm ²)	Weight (g/set)	AL-value * (nH/N ²)	Core loss (W)max. 100kHz 150mT 25°C	80°C	120°C
0.171	103	604	62460	531	511	382	355	15,500 ± 25%	14.4	13.2	16.5

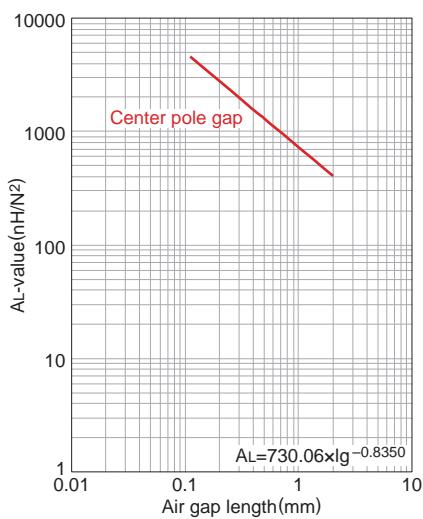
* Coil: Ø0.4 2UEW 100Ts

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.

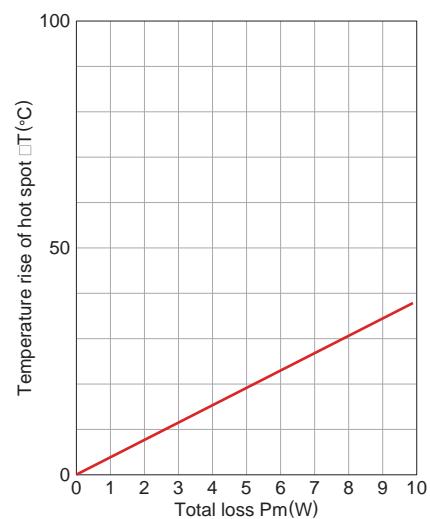
AL-value vs. Air gap length (Typ.)



Measuring conditions

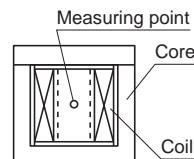
- Coil : Ø0.4 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

Temperature rise vs. Total loss (Typ.)



Measuring conditions

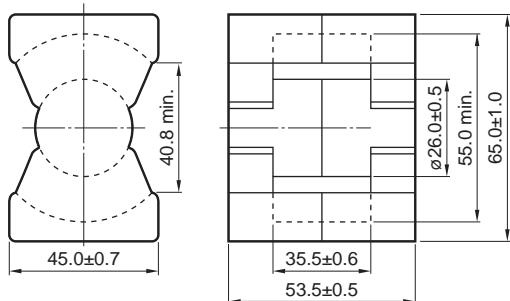
- Room space: approx. 400x300x 300cm
- Ambient temperature : 25°C
- Humidity: 45(%)RH.



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Mn-Zn PQ series Part No.: PC47PQ65/54-Z

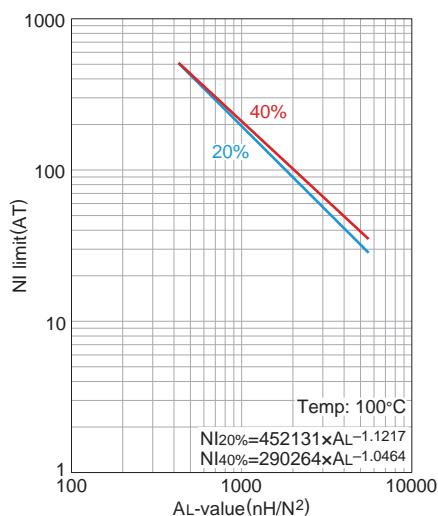
■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics	
Core factor C1 (mm ⁻¹)	Effective magnetic path length l _e (mm)	Effective cross-sectional area A _e (mm ²)	Effective core volume V _e (mm ³)	Cross-sectional center pole area A _{cp} (mm ²)	Minimum cross-sectional center pole area A _{cp min.} (mm ²)	Cross-sectional winding area of core A _{cw} (mm ²)	Weigh (g/set)	AL-value * (nH/N ²)	Core loss (W)max. 100kHz 150mT 100°C
0.207	123	597	73552	531	511	532	410	10,000 ± 25%	14.8

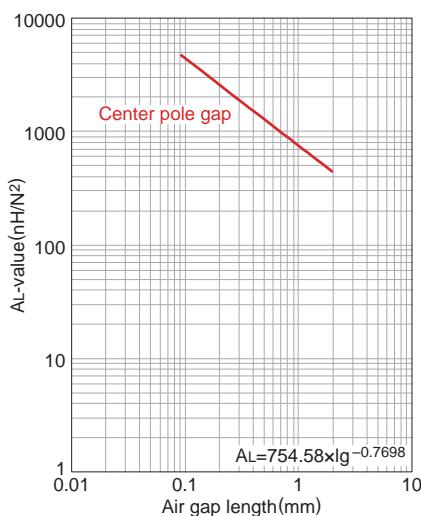
* Coil: Ø0.4 2UEW 100Ts

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.

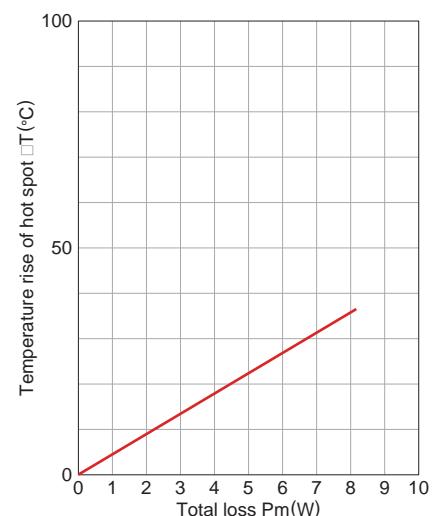
AL-value vs. Air gap length (Typ.)



Measuring conditions

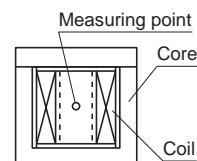
- Coil : Ø0.4 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

Temperature rise vs. Total loss (Typ.)



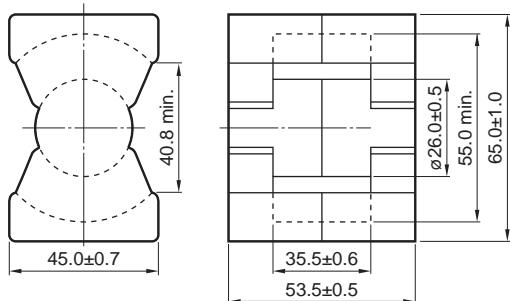
Measuring conditions

- Room space: approx. 400x300x 300cm
- Ambient temperature : 25°C
- Humidity: 45(%)RH.



Mn-Zn PQ series Part No.: PC95PQ65/54-Z

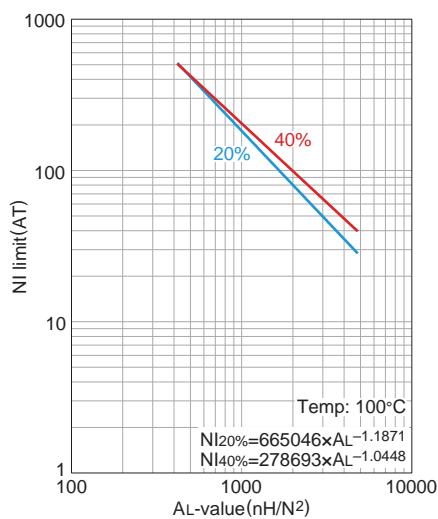
■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics			
Core factor C1 (mm ⁻¹)	Effective magnetic path length l _e (mm)	Effective cross-sectional area A _e (mm ²)	Effective core volume V _e (mm ³)	Cross-sectional center pole area A _{cp} (mm ²)	Minimum cross-sectional center pole area A _{cp} min. (mm ²)	Cross-sectional winding area of core A _{cw} (mm ²)	Weight (g/set)	AL-value * (nH/N ²)	Core loss (W)max. 100kHz 150mT 25°C	80°C	120°C
0.207	123	597	73552	531	511	532	410	13,500 ± 25%	17.0	15.5	19.5

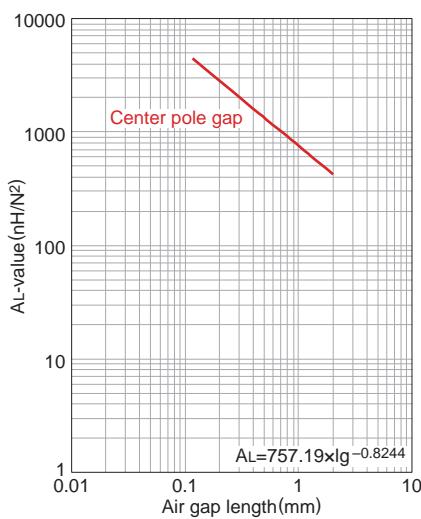
* Coil: ø0.4 2UEW 100Ts

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.

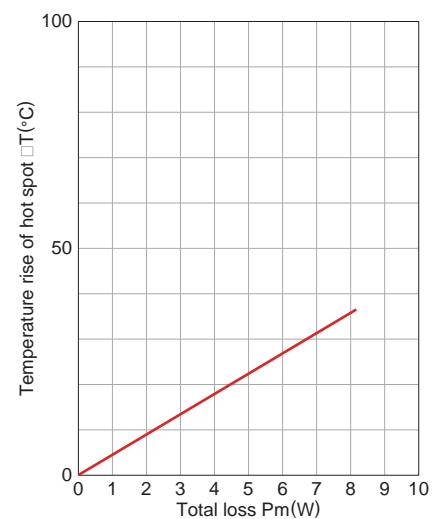
AL-value vs. Air gap length (Typ.)



Measuring conditions

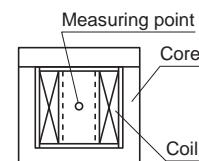
- Coil : ø0.4 2UEW 100Ts
- Frequency : 1kHz
- Current level : 0.5mA
- Ambient temperature : 25°C

Temperature rise vs. Total loss (Typ.)



Measuring conditions

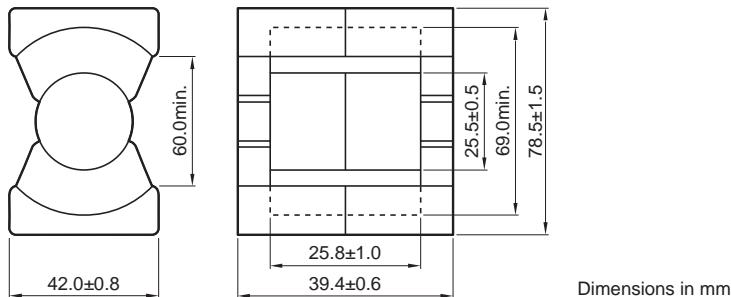
- Room space: approx. 400x300x 300cm
- Ambient temperature : 25°C
- Humidity: 45(%)RH.



⚠ 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 PQ series Part No.: PE22 PQ78X39X42

■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional center pole area	Minimum cross-sectional area	Winding cross-sectional area	Weight (approx.)	AL-value
C_1 (mm ⁻¹)	$C_2 \times 10^{-2}$ (mm ⁻³)	l_e (mm)	A_e (mm ²)	V_e (mm ³)	A_c (mm ²)	$A_{min.}^*$ (mm ²)	(g)	(nH/N ²) 1kHz 0.4A/m 23°C
0.2473	0.05153	119	480	56900	510	510C*	570	7940 ± 25%

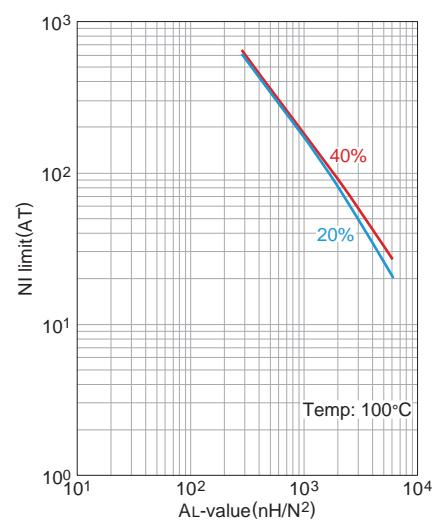
* The symbol followed A min. value shows minimum cross-sectional area part.

C is center pole part, L: is outer pole part, B is the back part.

• Available customaize core like this. Please specify when ordering.

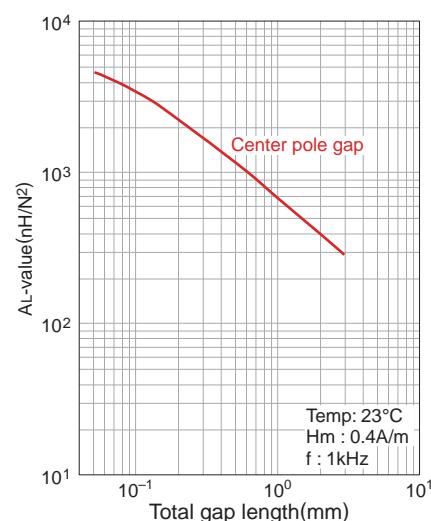
○ Calculated output power (forward converter mode): 1.6kW (100kHz)

NI limit vs. AL-value



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

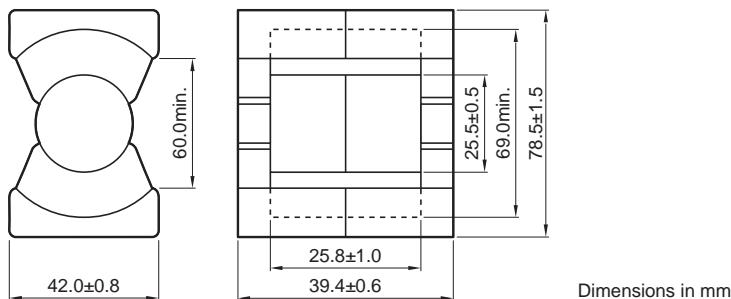
AL-value vs. Air gap length



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

Mn-Zn PQ series Part No.: PC40 PQ78X39X42

■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional center pole area	Minimum cross-sectional area	Winding cross-sectional area	Weight (approx.)	AL-value
C_1 (mm ⁻¹)	$C_2 \times 10^{-2}$ (mm ⁻³)	l_e (mm)	A_e (mm ²)	V_e (mm ³)	A_c (mm ²)	$A_{min.}^*$ (mm ²)	(g)	(nH/N ²) 1kHz 0.4A/m 23°C
0.2473	0.05153	119	480	56900	510	510C*	570	304

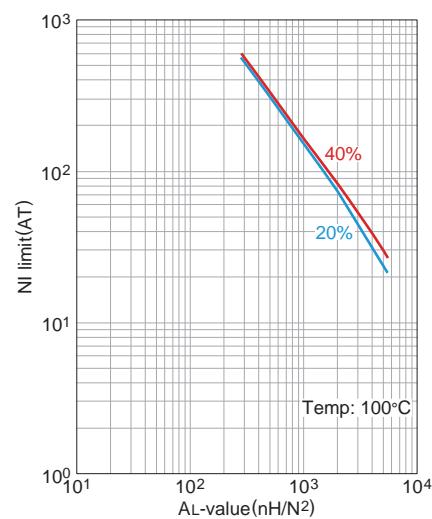
* The symbol followed A min. value shows minimum cross-sectional area part.

C is center pole part, L: is outer pole part, B is the back part.

• Available customaize core like this. Please specify when ordering.

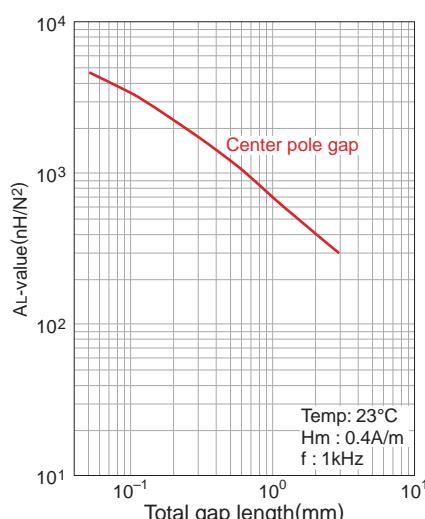
○ Calculated output power (forward converter mode): 1.7kW (100kHz)

NI limit vs. AL-value



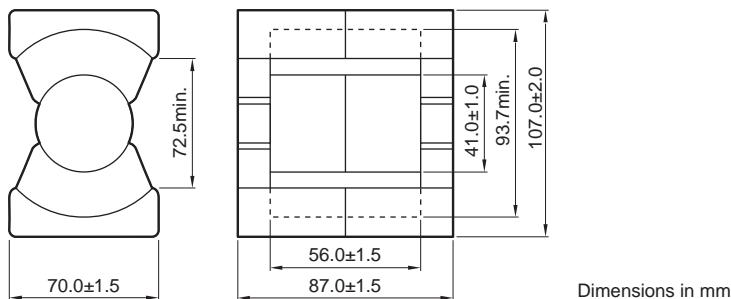
The 20% and 40% graph shows when a 20% and 40% drop from the initial AL-value has been made due to the DC superimposition.

AL-value vs. Air gap length



Mn-Zn PQ series Part No.: PE22 PQ107X87X70

■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional center pole area	Minimum cross-sectional area	Winding cross-sectional area	Weight (approx.)	AL-value
C_1 (mm ⁻¹)	$C_2 \times 10^{-2}$ (mm ⁻³)	l_e (mm)	A_e (mm ²)	V_e (mm ³)	A_c (mm ²)	$A_{min.}^*$ (mm ²)	Acw (mm ²)	(nH/N ²) 1kHz 0.4A/m 23°C
0.1426	0.009989	204	1428	290600	1320	1320C*	1540	1560

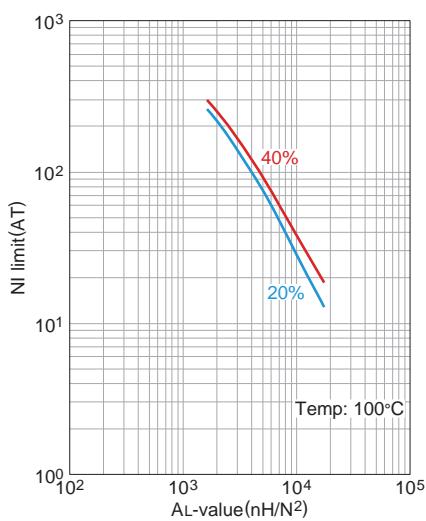
* The symbol followed A min. value shows minimum cross-sectional area part.

C is center pole part, L: is outer pole part, B is the back part.

• Available customaize core like this. Please specify when ordering.

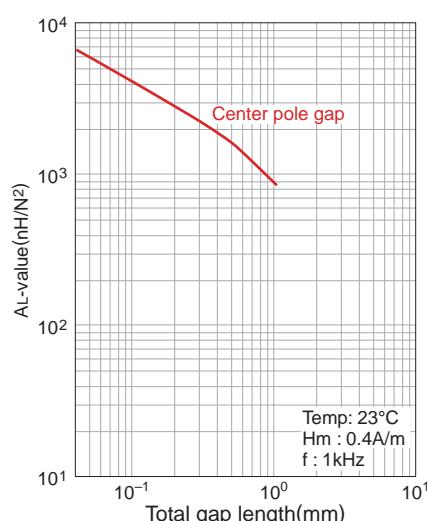
Calculated output power (forward converter mode): 8.3kW (100kHz)

NI limit vs. AL-value



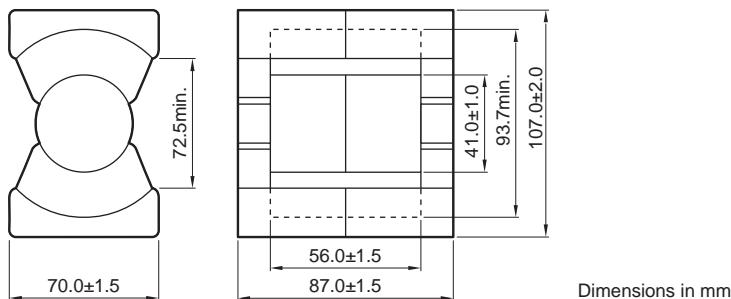
The 20% and 40% graph shows when a 20% and 40% drop from the initial AL-value has been made due to the DC superimposition.

AL-value vs. Air gap length



Mn-Zn PQ series Part No.: PC40 PQ107X87X70

■ SHAPES AND DIMENSIONS



Effective parameter								Electrical characteristics
Core factor	Effective magnetic path length	Effective cross-sectional area	Effective core volume	Cross-sectional center pole area	Minimum cross-sectional area	Winding cross-sectional area	Weight (approx.)	AL-value
C_1 (mm ⁻¹)	$C_2 \times 10^{-2}$ (mm ⁻³)	l_e (mm)	A_e (mm ²)	V_e (mm ³)	A_c (mm ²)	$A_{min.}^*$ (mm ²)	Acw (mm ²)	(nH/N ²) 1kHz 0.4A/m 23°C
0.1426	0.009989	204	1428	290600	1320	1320C*	1540	1560

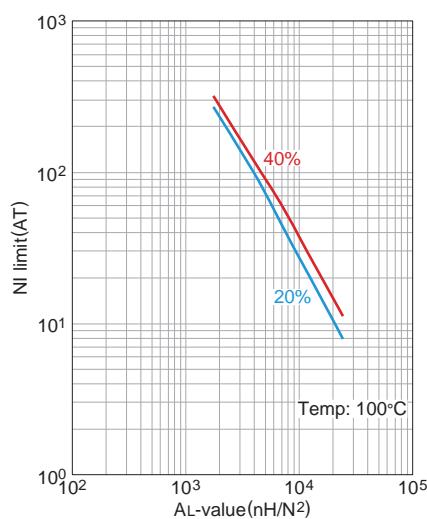
* The symbol followed A min. value shows minimum cross-sectional area part.

C is center pole part, L: is outer pole part, B is the back part.

• Available customaize core like this. Please specify when ordering.

Calculated output power (forward converter mode): 9.0kW (100kHz)

NI limit vs. AL-value



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

AL-value vs. Air gap length

