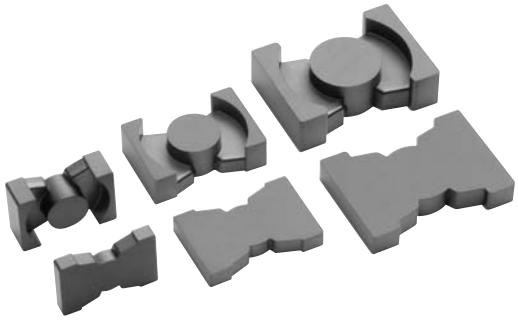
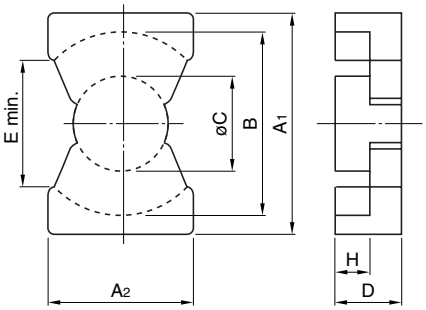
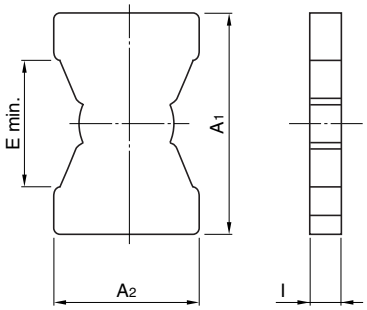
PQI CORES





HPQ core



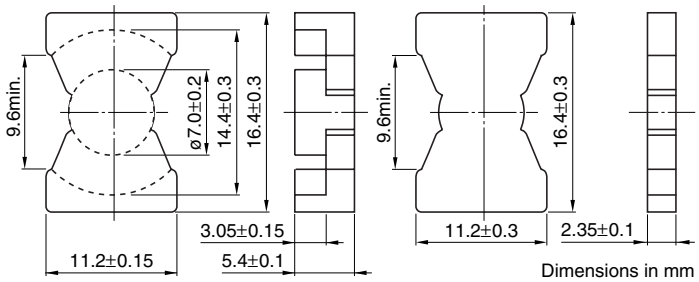
PQD core

Part No.(HPQ+PQD)	Dimensions in mm							
	A_1	**A_2**	**B**	**øC**	**D**	**E min.**	**H**	**I**
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								
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								
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								

Part No. (HPQ+PQD)	Effective parameter							Electrical characteristics	
	C_1 (mm^{-1})	**ℓe (mm)**	**Ae (mm^2)**	**Ve (mm^3)**	**Amin. (mm^2)**	**Acw (mm^2)**	**Weight (g)**	**A_L-value (nH/N^2)***	
								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% 160±7%
PC90PQI16/7.8Z-12								3600±25%	
PC95PQI20/9Z-12	0.346	22.9	66.0	1510	59.3	14.0	9.0	7070±25%	100±3% 160±5% 250±7%
PC90PQI20/9Z-12								5200±25%	
PC95PQI26/12Z-12	0.224	27.7	123	3410	109	16.3	21	11950±25%	100±3% 160±3% 250±5%
PC90PQI26/12Z-12								8600±25%	

* A_L-value: 1kHz, 0.5mA, 100Ts

PQI Series PQI16/7.8 Cores



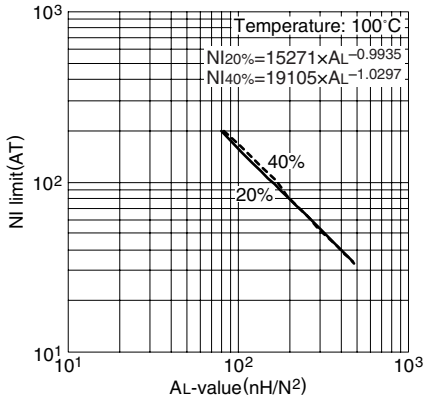
PARAMETER

Core factor	C1	mm^{-1}	0.467
Effective magnetic path length	ℓe	mm	19.5
Effective cross-sectional area	Ae	mm^2	41.8
Effective core volume	Ve	mm^3	815
Cross-sectional center pole area	Acp	mm^2	11.3
Weight (approx.)		g	5.0

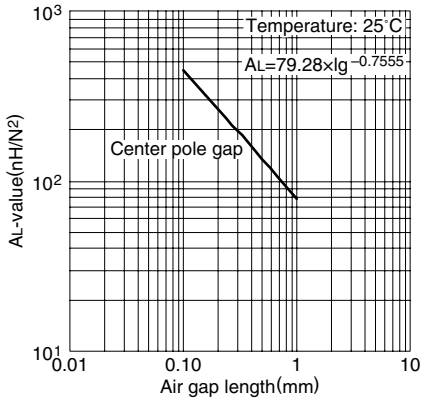
Part No.	AL-value (nH/N^2)*	Core loss (W)
		100kHz, 200mT
PC90PQI16/7.8Z-12	3600±25%	0.5(100°C)
PC95PQI16/7.8Z-12	4910±25%	0.45/0.35/0.45(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

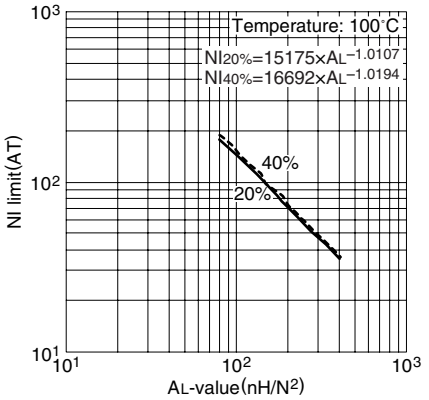
NI limit vs. AL-value for PC90PQI16/7.8 gapped core (Typical)



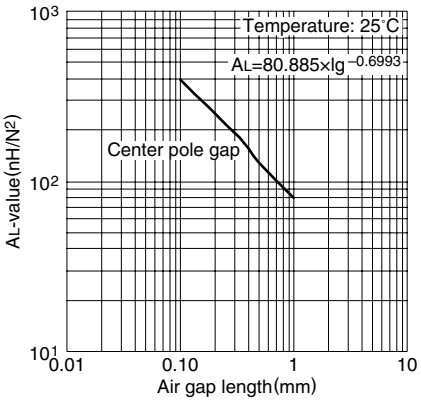
AL-value vs. Air gap length for PC90PQI16/7.8 core (Typical)



NI limit vs. AL-value for PC95PQI16/7.8 gapped core (Typical)



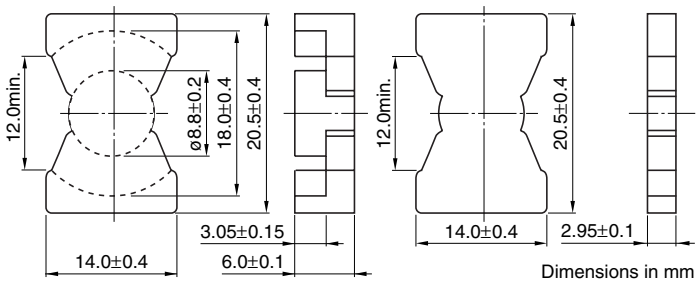
AL-value vs. Air gap length for PC95PQI16/7.8 core (Typical)



Note: NI limit shows the point where the exciting current is 20% and 40% away from its extended linear part.

Measuring conditions
- Coil: ø0.18 2UEW 100Ts
- Frequency: 1kHz
- Level: 0.5mA

PQI Series PQI20/9 Cores



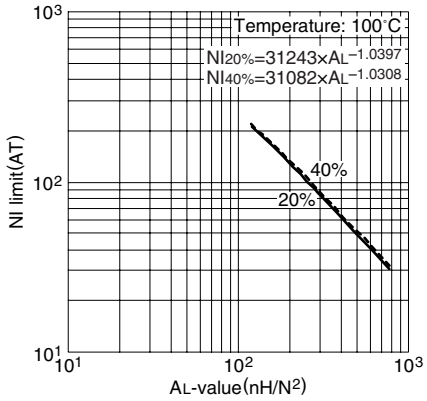
PARAMETER

Core factor	C1	mm^{-1}	0.346
Effective magnetic path length	ℓe	mm	22.9
Effective cross-sectional area	Ae	mm^2	66.0
Effective core volume	Ve	mm^3	1510
Cross-sectional winding area of core	Acw	mm^2	14.0
Weight (approx.)		g	9.0

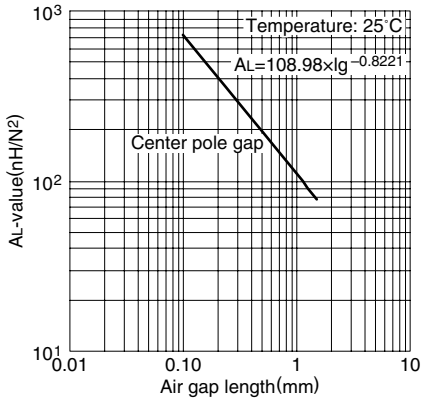
Part No.	AL-value (nH/N^2)*	Core loss (W)
		100kHz, 200mT
PC90PQI20/9Z-12	5200±25%	0.8(100°C)
PC95PQI20/9Z-12	7070±25%	0.75/0.65/0.75(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

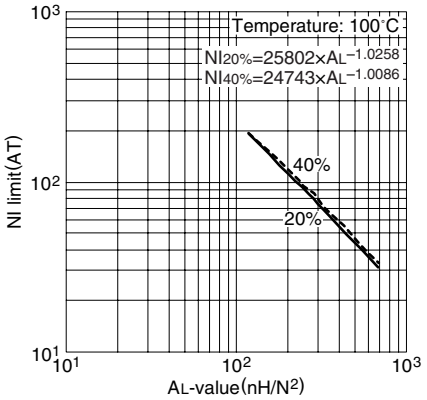
NI limit vs. AL-value for PC90PQI20/9 gapped core (Typical)



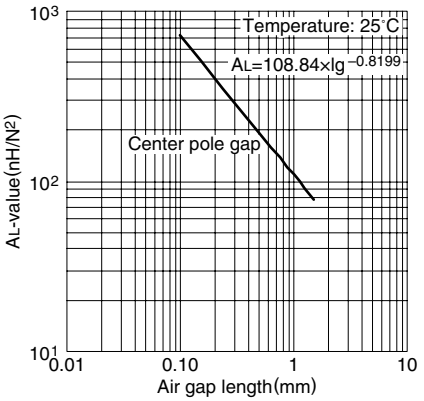
AL-value vs. Air gap length for PC90PQI20/9 core (Typical)



NI limit vs. AL-value for PC95PQI20/9 gapped core (Typical)



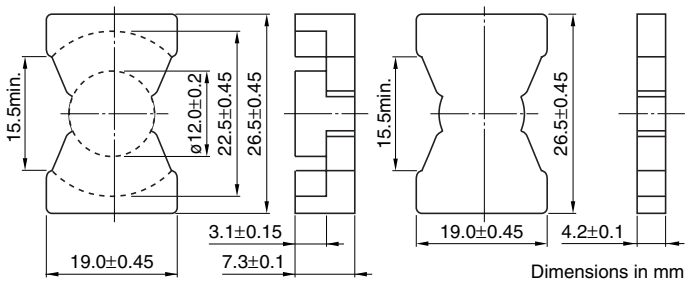
AL-value vs. Air gap length for PC95PQI20/9 core (Typical)



Note: NI limit shows the point where the exciting current is 20% and 40% away from its extended linear part.

Measuring conditions
- Coil: ø0.18 2UEW 100Ts
- Frequency: 1kHz
- Level: 0.5mA

PQI Series PQI26/12 Cores



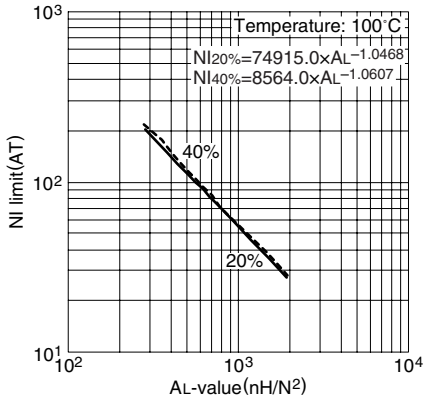
PARAMETER

Core factor	C1	mm^{-1}	0.224
Effective magnetic path length	ℓe	mm	27.7
Effective cross-sectional area	Ae	mm^2	123
Effective core volume	Ve	mm^3	3410
Cross-sectional winding area of core	Acw	mm^2	16.3
Weight (approx.)		g	21

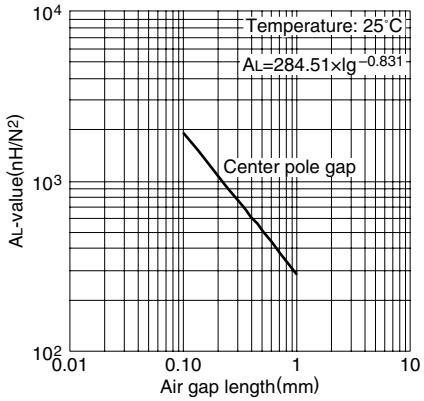
Part No.	AL-value (nH/N^2)*	Core loss (W)
		100kHz, 200mT
PC90PQI26/12Z-12	8600±25%	1.6(100°C)
PC95PQI26/12Z-12	11950±25%	1.5/1.4/1.5(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

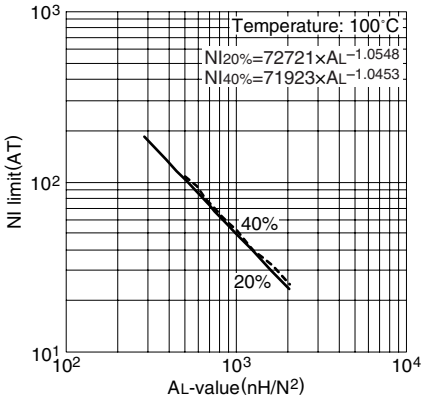
NI limit vs. AL-value for PC90PQI26/12 gapped core (Typical)



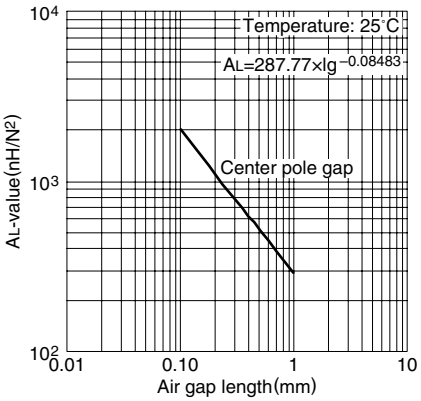
AL-value vs. Air gap length for PC90PQI26/12 core (Typical)



NI limit vs. AL-value for PC95PQI26/12 gapped core (Typical)



AL-value vs. Air gap length for PC95PQI26/12 core (Typical)



Note: NI limit shows the point where the exciting current is 20% and 40% away from its extended linear part.

Measuring conditions
- Coil: ø0.18 2UEW 100Ts
- Frequency: 1kHz
- Level: 0.5mA