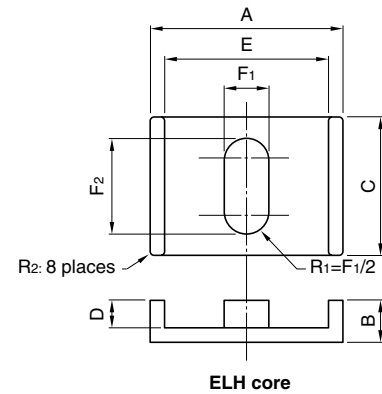
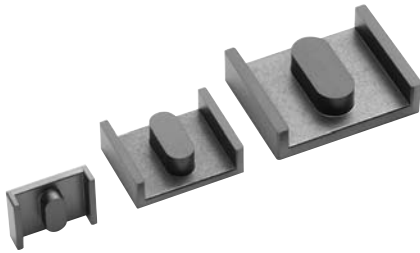


EL CORES

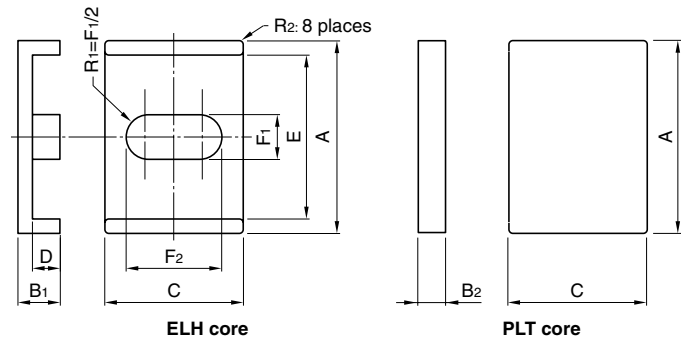
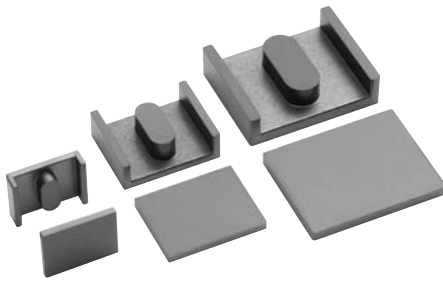


Part No.(ELH+ELH)	Dimensions in mm							
	A	B	C	D	E	F ₁	F ₂	R ₂
PC95EL11X4-Z	11.00±0.20	2.01±0.10	8.80±0.20	1.00±0.10	9.17±0.20	2.78±0.10	6.40±0.15	0.30
PC90EL11X4-Z								
PC95EL13X4.4-Z	13.00±0.25	2.19±0.10	10.40±0.20	1.00±0.10	10.83±0.20	3.29±0.10	7.56±0.15	0.30
PC90EL13X4.4-Z								
PC95EL15.5X5.8-Z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

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

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

ELT CORES

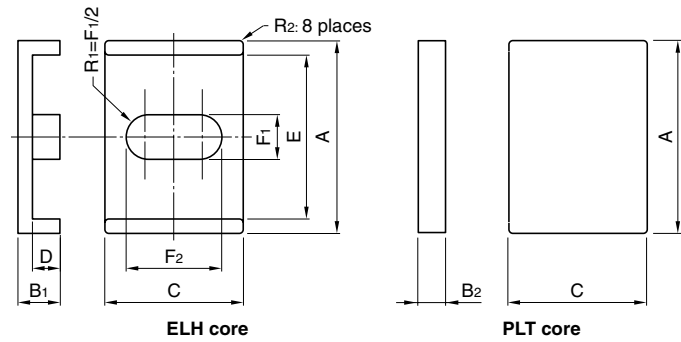
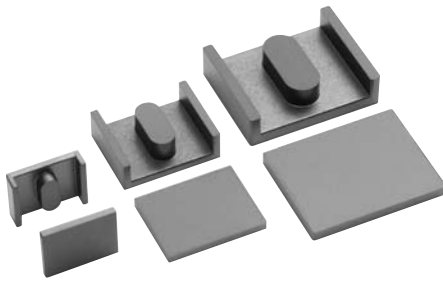


Part No.(ELH+PLT)	Dimensions in mm								
	A	B ₁	B ₂	C	D	E	F ₁	F ₂	R ₂
PC95ELT11X3-Z	11.00±0.20	2.01±0.10	1.01±0.05	8.80±0.20	1.00±0.10	9.17±0.20	2.78±0.10	6.40±0.15	0.30
PC90ELT11X3-Z									
PC95ELT11X4-Z	11.00±0.20	3.01±0.10	1.01±0.05	8.80±0.20	2.00±0.10	9.17±0.20	2.78±0.10	6.40±0.15	0.30
PC90ELT11X4-Z									
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									
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									
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									
PC95ELT15.5X5.8-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
PC90ELT15.5X5.8-Z									
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±0.30	4.55±0.10	10.47±0.20	0.30
PC90ELT18X5.3-Z									

Part No. (ELH+PLT)	Effective parameter							Electrical characteristics	
	C ₁	ℓ _e	A _e	V _e	A _{min.}	A _{cw}	Weight	AL-value (nH/N ²)*	
	(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(mm ²)	(g)	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%
PC90ELT11X3-Z								1750±25%	80±5%
PC95ELT11X4-Z	0.826	13.7	16.5	226	15.9	6.39	1.3	2400±25%	50±3%
PC90ELT11X4-Z								1700±25%	80±5%
PC95ELT13X3.4-Z	0.578	13.4	23.2	312	22.4	3.77	1.8	3390±25%	63±3%
PC90ELT13X3.4-Z								2400±25%	100±5%
PC95ELT13X4.4-Z	0.667	15.4	23.1	357	22.4	7.54	2.0	3160±25%	63±3%
PC90ELT13X4.4-Z								2300±25%	100±5%
PC95ELT15.5X4.3-Z	0.503	16.6	33.1	550	31.9	6.75	3.0	4340±25%	63±3%
PC90ELT15.5X4.3-Z								2900±25%	100±3%
PC95ELT15.5X5.8-Z	0.597	19.6	32.9	646	31.9	13.5	3.5	3680±25%	63±3%
PC90ELT15.5X5.8-Z								2200±25%	160±5%
PC95ELT18X5.3-Z	0.446	19.8	44.5	882	43.0	10.5	5.0	5330±25%	80±3%
PC90ELT18X5.3-Z								3500±25%	125±3%

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

ELT CORES

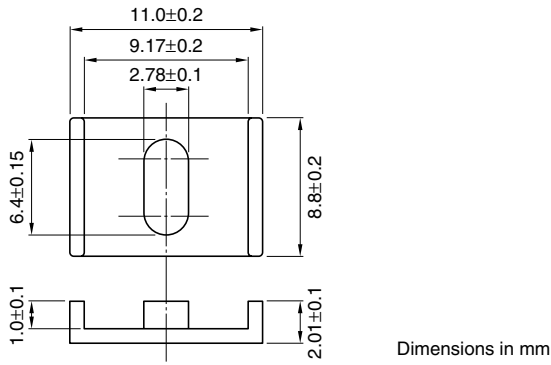


Part No.(ELH+PLT)	Dimensions in mm								
	A	B ₁	B ₂	C	D	E	F ₁	F ₂	R ₂
PC95ELT18X7.3-Z	18.00±0.30	5.65±0.10	1.65±0.10	14.40±0.25	4.00±0.15	15.00±0.30	4.55±0.10	10.47±0.20	0.30
PC90ELT18X7.3-Z									
PC95ELT20X5.7-Z	20.00±0.35	3.83±0.10	1.83±0.10	16.00±0.30	2.00±0.10	16.67±0.30	5.06±0.15	11.63±0.20	0.50
PC90ELT20X5.7-Z									
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									
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									
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									
PC95ELT25X6.6-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	6.32±0.15	14.54±0.25	0.50
PC90ELT25X6.6-Z									
PC95ELT25X8.6-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	6.32±0.15	14.54±0.25	0.50
PC90ELT25X8.6-Z									

Part No. (ELH+PLT)	Effective parameter						Electrical characteristics		
	C ₁	ℓ _e	A _e	V _e	A _{min.}	A _{cw}	Weight	AL-value (nH/N ²)*	
	(mm ⁻¹)	(mm)	(mm ²)	(mm ³)	(mm ²)	(mm ²)	(g)	Without air gap	With air gap
PC95ELT18X7.3-Z	0.538	23.8	44.3	1050	43.0	20.9	6.0	4760±25%	80±3%
PC90ELT18X7.3-Z								3100±25%	125±3%
PC95ELT20X5.7-Z	0.393	21.6	54.9	1180	52.9	11.6	6.7	6270±25%	80±3%
PC90ELT20X5.7-Z								4150±25%	125±3%
PC95ELT20X7.7-Z	0.469	25.6	54.6	1400	52.9	23.2	7.8	5630±25%	80±3%
PC90ELT20X7.7-Z								3900±25%	125±3%
PC95ELT22X6-Z	0.351	23.4	66.6	1560	64.2	12.8	9.0	7250±25%	100±3%
PC90ELT22X6-Z								4800±25%	160±3%
PC95ELT22X8-Z	0.413	27.3	66.2	1810	64.2	25.5	10	6540±25%	100±3%
PC90ELT22X8-Z								4250±25%	160±3%
PC95ELT25X6.6-Z	0.302	26.0	86.0	2230	83.0	14.5	13	8600±25%	100±3%
PC90ELT25X6.6-Z								6100±25%	160±3%
PC95ELT25X8.6-Z	0.350	30.0	85.6	2570	83.0	29.0	15	7540±25%	100±3%
PC90ELT25X8.6-Z								5400±25%	160±3%

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

EL Series EL11X4 Cores



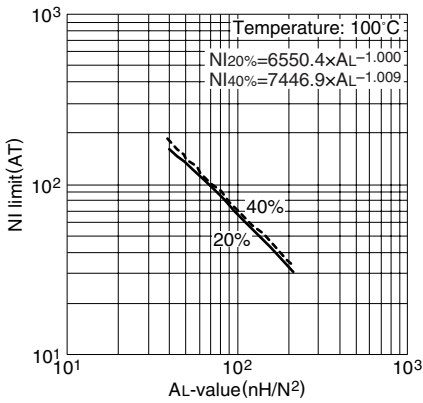
PARAMETER

Core factor	C1	mm ⁻¹	0.826
Effective magnetic path length	ℓ_e	mm	13.7
Effective cross-sectional area	Ae	mm ²	16.5
Effective core volume	Ve	mm ³	226
Cross-sectional winding area of core	Acw	mm ²	6.39
Weight (approx.)		g	1.3

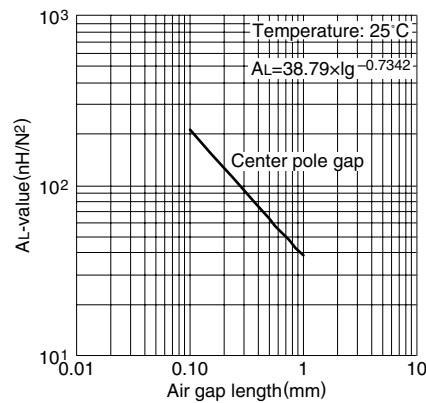
Part No.	AL-value (nH/N ²)*	Core loss (W) 100kHz, 200mT
PC90EL11X4-Z	1950±25%	0.2(100°C)
PC95EL11X4-Z	2400±25%	0.2/0.18/0.2(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

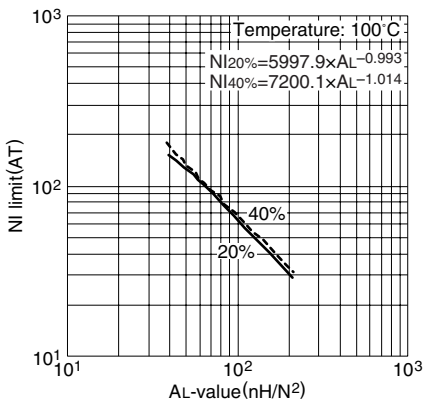
NI limit vs. AL-value for PC90EL11X4 gapped core (Typical)



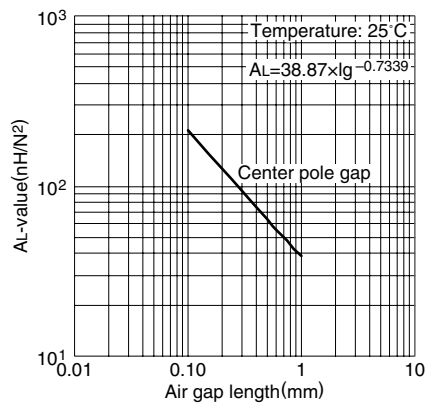
AL-value vs. Air gap length for PC90EL11X4 core (Typical)



NI limit vs. AL-value for PC95EL11X4 gapped core (Typical)



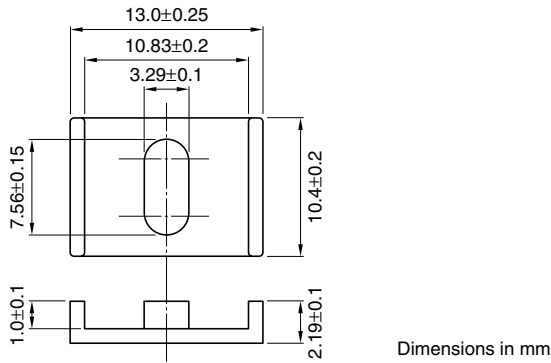
AL-value vs. Air gap length for PC95EL11X4 core (Typical)



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

Measuring conditions • Coil: ϕ 0.18 2UEW 100Ts
 • Frequency: 1kHz
 • Level: 0.5mA

EL Series EL13X4.4 Cores



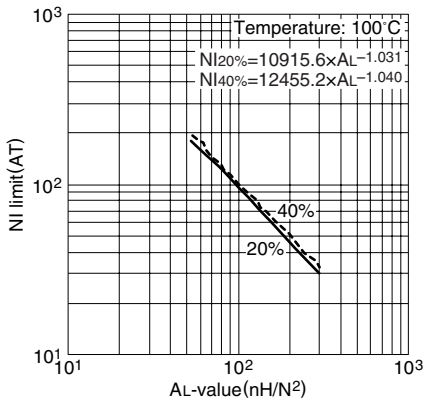
PARAMETER

Core factor	C1	mm ⁻¹	0.667
Effective magnetic path length	ℓ_e	mm	15.4
Effective cross-sectional area	Ae	mm ²	23.1
Effective core volume	Ve	mm ³	357
Cross-sectional winding area of core	Acw	mm ²	7.54
Weight (approx.)		g	2.0

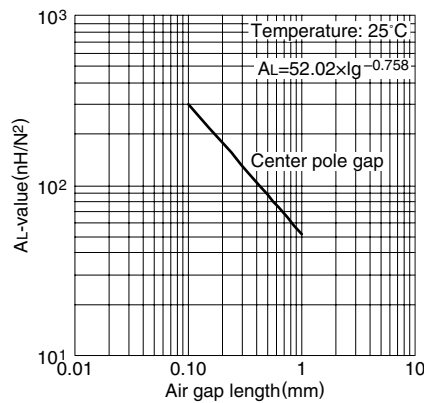
Part No.	AL-value (nH/N ²)*	Core loss (W) 100kHz, 200mT
PC90EL13X4.4-Z	2500±25%	0.25(100°C)
PC95EL13X4.4-Z	3160±25%	0.25/0.2/0.25(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

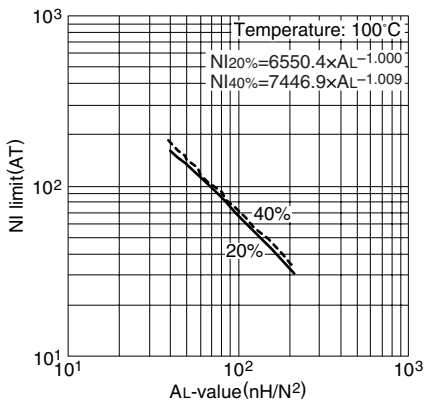
NI limit vs. AL-value for PC90EL13X4.4 gapped core (Typical)



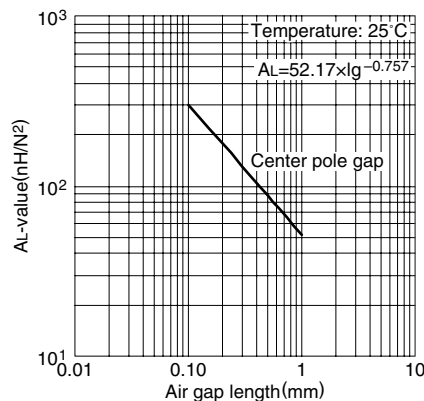
AL-value vs. Air gap length for PC90EL13X4.4 core (Typical)



NI limit vs. AL-value for PC95EL13X4.4 gapped core (Typical)



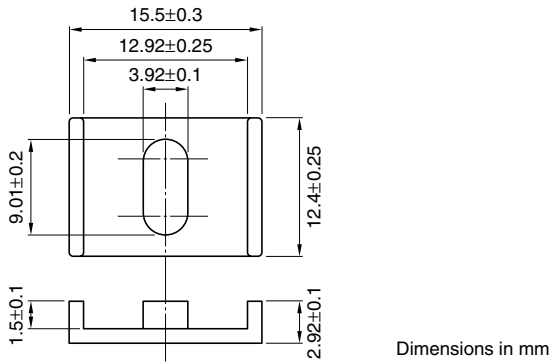
AL-value vs. Air gap length for PC95EL13X4.4 core (Typical)



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

EL Series EL15.5X5.8 Cores



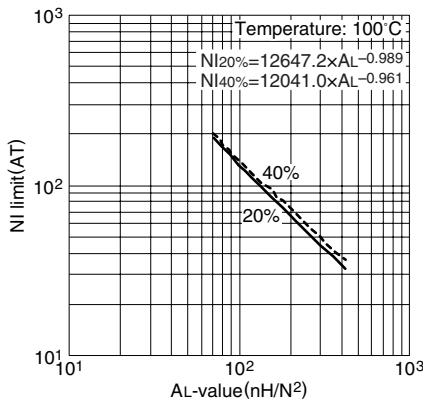
PARAMETER

Core factor	C1	mm ⁻¹	0.597
Effective magnetic path length	ℓ _e	mm	19.6
Effective cross-sectional area	A _e	mm ²	32.9
Effective core volume	V _e	mm ³	646
Cross-sectional winding area of core	A _{cw}	mm ²	13.5
Weight (approx.)		g	3.5

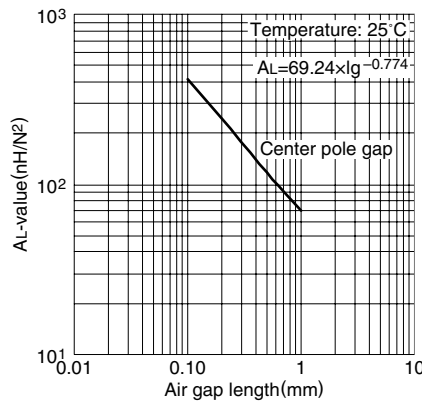
Part No.	AL-value (nH/N ²)*	Core loss (W) 100kHz, 200mT
PC90EL15.5X5.8-Z	3000±25%	0.5(100°C)
PC95EL15.5X5.8-Z	3680±25%	0.5/0.45/0.5(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

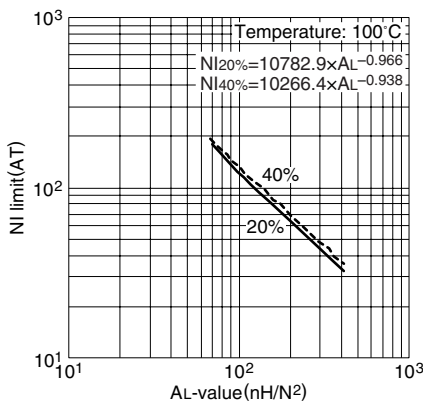
NI limit vs. AL-value for PC90EL15.5X5.8 gapped core (Typical)



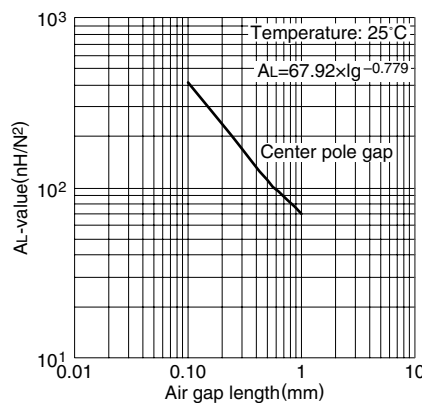
AL-value vs. Air gap length for PC90EL15.5X5.8 core (Typical)



NI limit vs. AL-value for PC95EL15.5X5.8 gapped core (Typical)



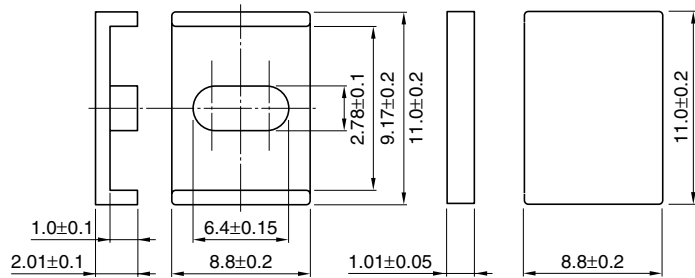
AL-value vs. Air gap length for PC95EL15.5X5.8 core (Typical)



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

ELT Series ELT11X3 Cores



Dimensions in mm

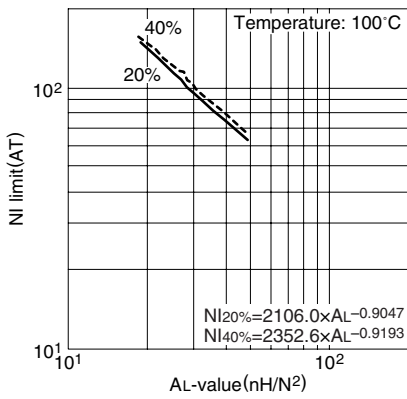
PARAMETER

Core factor	C1	mm ⁻¹	0.702
Effective magnetic path length	ℓ_e	mm	11.7
Effective cross-sectional area	Ae	mm ²	16.6
Effective core volume	Ve	mm ³	194
Cross-sectional winding area of core	Acw	mm ²	3.20
Weight (approx.)		g	1.1

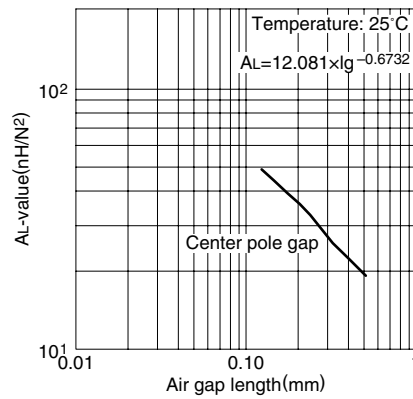
Part No.	AL-value (nH/N ²)*	Core loss (W) 100kHz, 200mT
PC90ELT11X3-Z	1750±25%	0.15(100°C)
PC95ELT11X3-Z	2590±25%	0.14/0.12/0.14(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

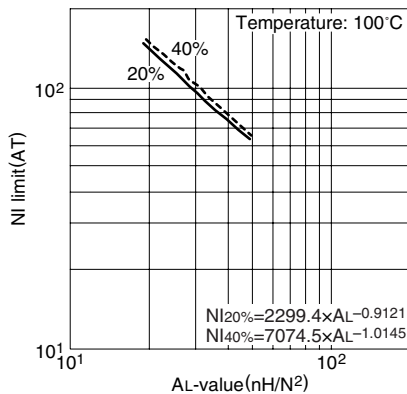
NI limit vs. AL-value for PC90ELT11X3 gapped core (Typical)



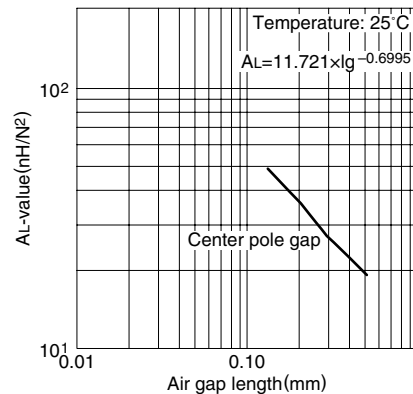
AL-value vs. Air gap length for PC90ELT11X3 core (Typical)



NI limit vs. AL-value for PC95ELT11X3 gapped core (Typical)



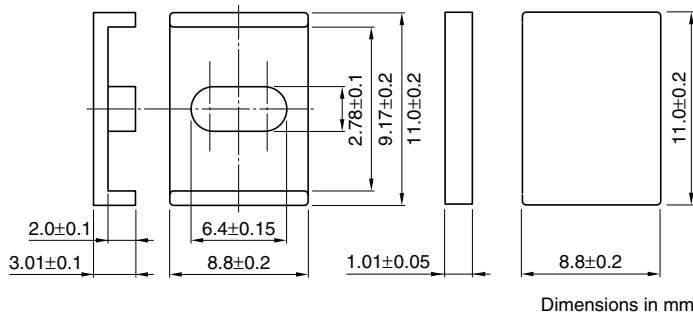
AL-value vs. Air gap length for PC95ELT11X3 core (Typical)



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

Measuring conditions • Coil: ϕ 0.18 2UEW 100Ts
• Frequency: 1kHz
• Level: 0.5mA

ELT Series ELT11X4 Cores



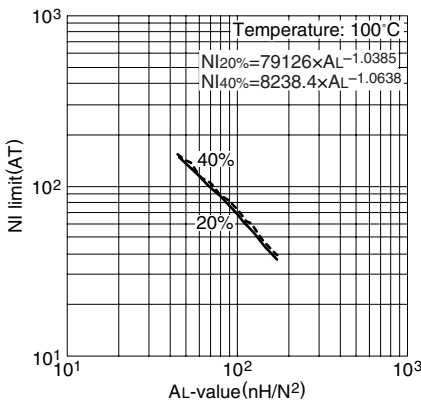
PARAMETER

Core factor	C1	mm ⁻¹	0.826
Effective magnetic path length	ℓ_e	mm	13.7
Effective cross-sectional area	Ae	mm ²	16.5
Effective core volume	Ve	mm ³	226
Cross-sectional winding area of core	Acw	mm ²	6.39
Weight (approx.)	g		1.3

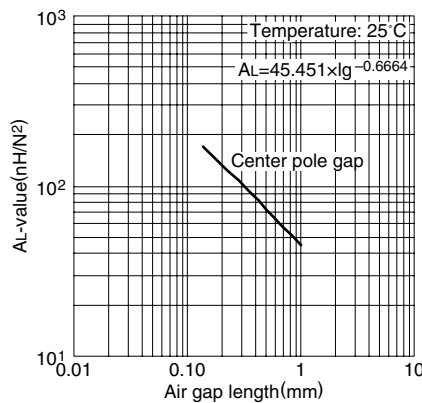
Part No.	AL-value (nH/N ²)*	Core loss (W) 100kHz, 200mT
PC90ELT11X4-Z	1700±25%	0.18(100°C)
PC95ELT11X4-Z	2400±25%	0.16/0.15/0.16(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

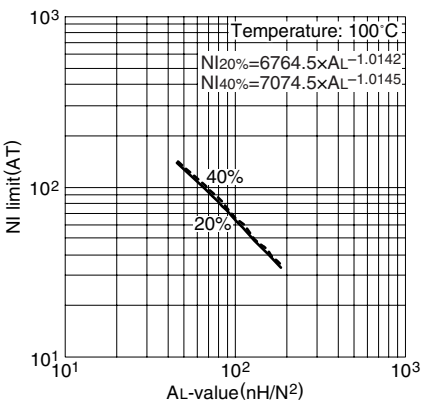
NI limit vs. AL-value for PC90ELT11X4 gapped core (Typical)



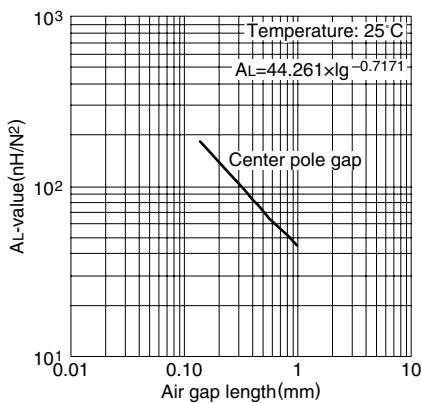
AL-value vs. Air gap length for PC90ELT11X4 core (Typical)



NI limit vs. AL-value for PC95ELT11X4 gapped core (Typical)



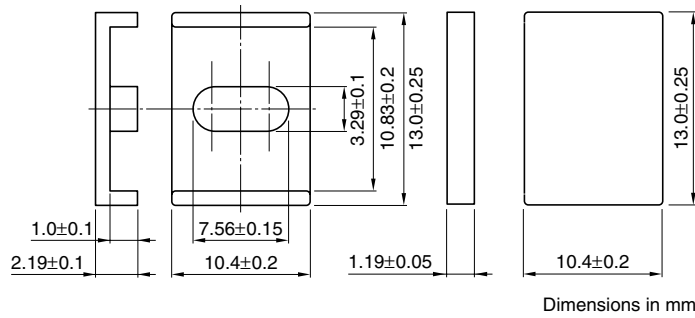
AL-value vs. Air gap length for PC95ELT11X4 core (Typical)



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

Measuring conditions • Coil: ϕ 0.18 2UEW 100Ts
 • Frequency: 1kHz
 • Level: 0.5mA

ELT Series ELT13X3.4 Cores



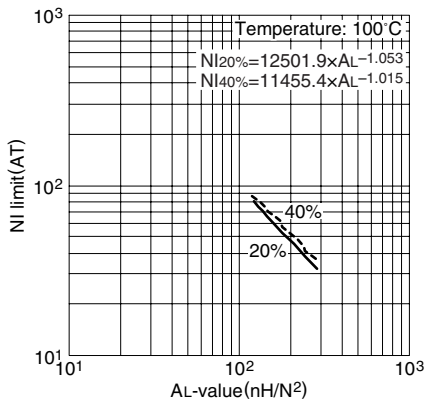
PARAMETER

Core factor	C1	mm ⁻¹	0.578
Effective magnetic path length	ℓ_e	mm	13.4
Effective cross-sectional area	Ae	mm ²	23.2
Effective core volume	Ve	mm ³	312
Cross-sectional winding area of core	Acw	mm ²	3.77
Weight (approx.)		g	1.8

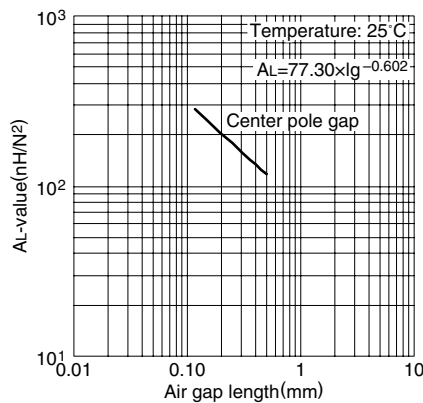
Part No.	AL-value (nH/N ²)*	Core loss (W) 100kHz, 200mT
PC90ELT13X3.4-Z	2400±25%	0.3(100°C)
PC95ELT13X3.4-Z	3390±25%	0.3/0.28/0.3(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

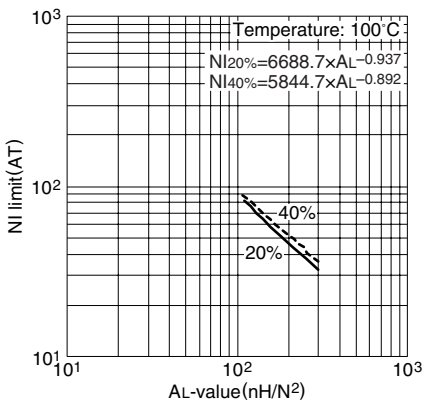
NI limit vs. AL-value for PC90ELT13X3.4 gapped core (Typical)



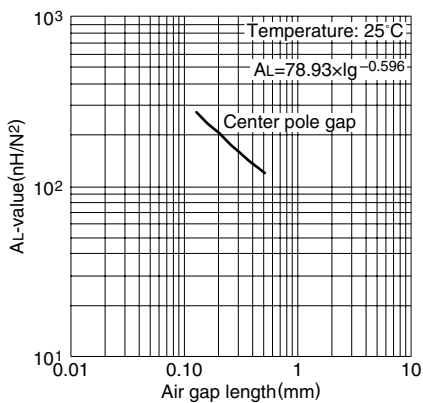
AL-value vs. Air gap length for PC90ELT13X3.4 core (Typical)



NI limit vs. AL-value for PC95ELT13X3.4 gapped core (Typical)



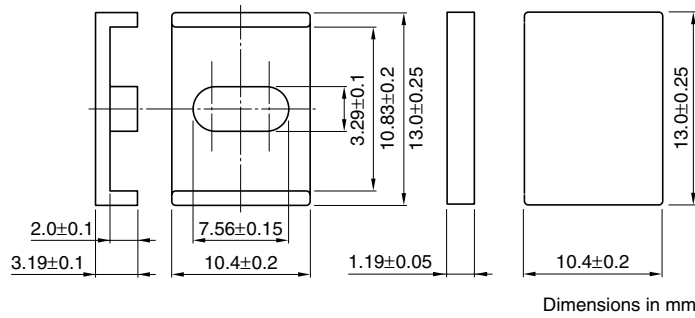
AL-value vs. Air gap length for PC95ELT13X3.4 core (Typical)



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

Measuring conditions • Coil: ϕ 0.18 2UEW 100Ts
 • Frequency: 1kHz
 • Level: 0.5mA

ELT Series ELT13X4.4 Cores



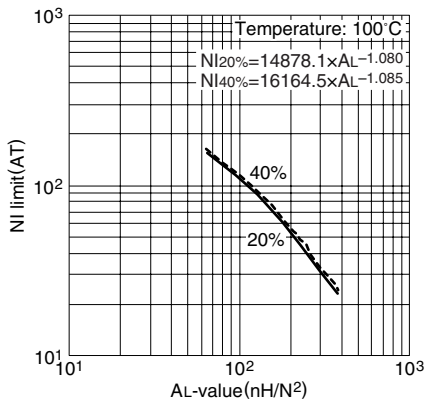
PARAMETER

Core factor	C1	mm ⁻¹	0.667
Effective magnetic path length	ℓ_e	mm	15.4
Effective cross-sectional area	Ae	mm ²	23.1
Effective core volume	Ve	mm ³	357
Cross-sectional winding area of core	Acw	mm ²	7.54
Weight (approx.)		g	2.0

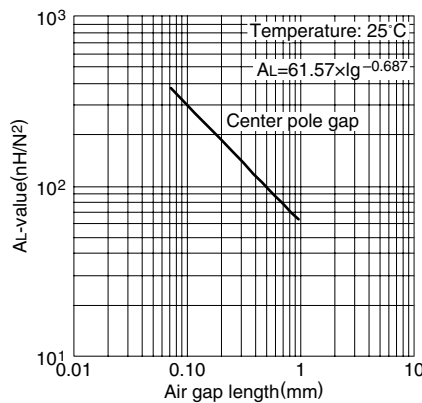
Part No.	AL-value (nH/N ²)*	Core loss (W) 100kHz, 200mT
PC90ELT13X4.4-Z	2300±25%	0.3(100°C)
PC95ELT13X4.4-Z	3160±25%	0.3/0.28/0.3(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

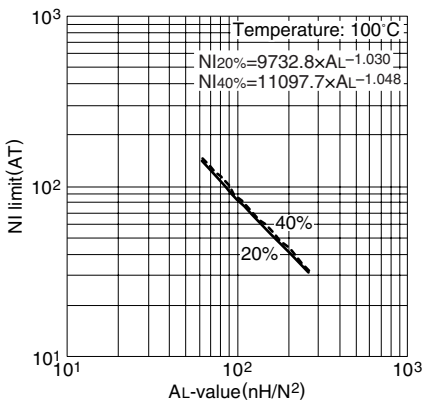
NI limit vs. AL-value for PC90ELT13X4.4 gapped core (Typical)



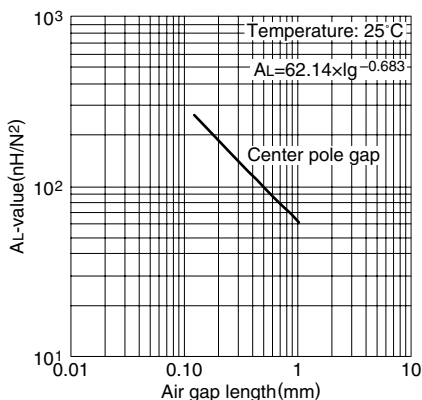
AL-value vs. Air gap length for PC90ELT13X4.4 core (Typical)



NI limit vs. AL-value for PC95ELT13X4.4 gapped core (Typical)



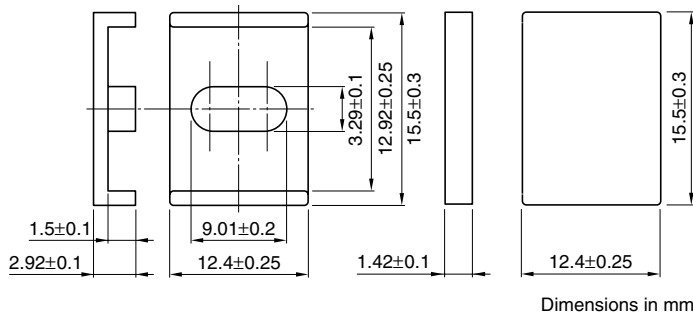
AL-value vs. Air gap length for PC95ELT13X4.4 core (Typical)



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

Measuring conditions • Coil: ϕ 0.18 2UEW 100Ts
• Frequency: 1kHz
• Level: 0.5mA

ELT Series ELT15.5X4.3 Cores



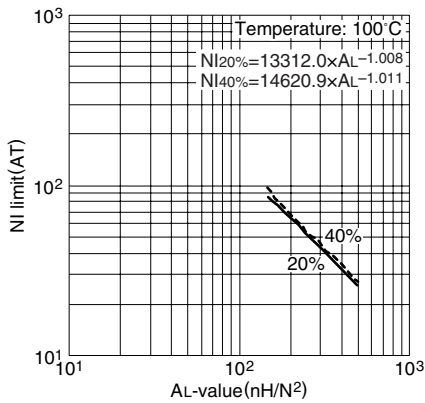
PARAMETER

Core factor	C1	mm ⁻¹	0.503
Effective magnetic path length	ℓ_e	mm	16.6
Effective cross-sectional area	Ae	mm ²	33.1
Effective core volume	Ve	mm ³	550
Cross-sectional winding area of core	Acw	mm ²	6.75
Weight (approx.)		g	3.0

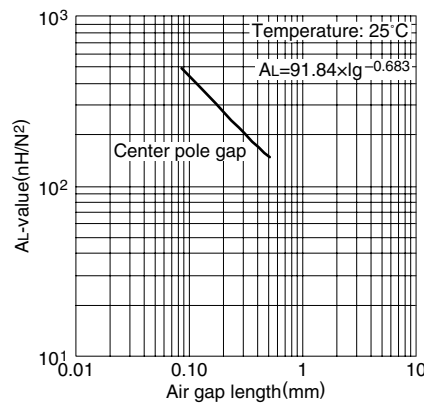
Part No.	AL-value (nH/N ²)*	Core loss (W) 100kHz, 200mT
PC90ELT15.5X4.3-Z	2900±25%	0.5(100°C)
PC95ELT15.5X4.3-Z	4340±25%	0.5/0.45/0.5(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

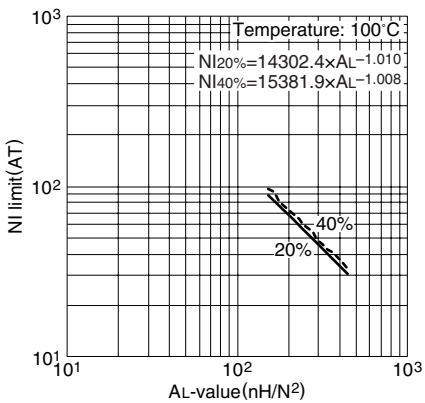
NI limit vs. AL-value for PC90ELT15.5X4.3 gapped core (Typical)



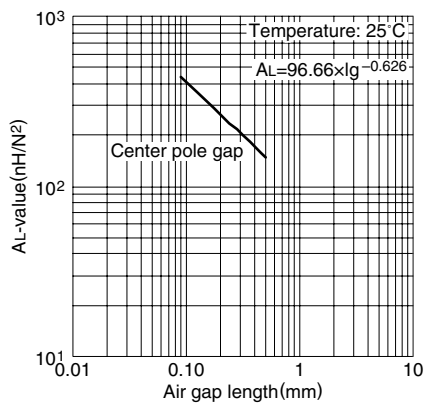
AL-value vs. Air gap length for PC90ELT15.5X4.3 core (Typical)



NI limit vs. AL-value for PC95ELT15.5X4.3 gapped core (Typical)



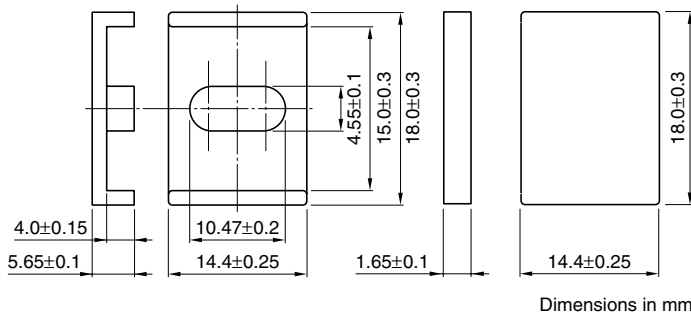
AL-value vs. Air gap length for PC95ELT15.5X4.3 core (Typical)



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

Measuring conditions • Coil: ϕ 0.18 2UEW 100Ts
• Frequency: 1kHz
• Level: 0.5mA

ELT Series ELT18X7.3 Cores



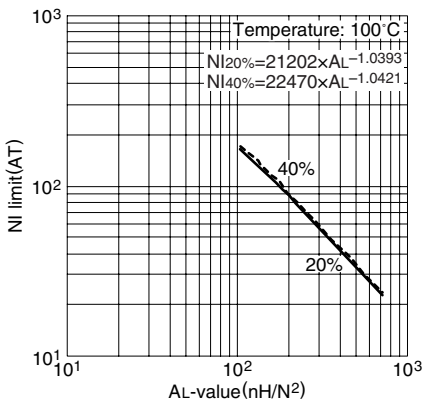
PARAMETER

Core factor	C1	mm ⁻¹	0.538
Effective magnetic path length	ℓ_e	mm	23.8
Effective cross-sectional area	Ae	mm ²	44.3
Effective core volume	Ve	mm ³	1050
Cross-sectional winding area of core	Acw	mm ²	20.9
Weight (approx.)		g	6.0

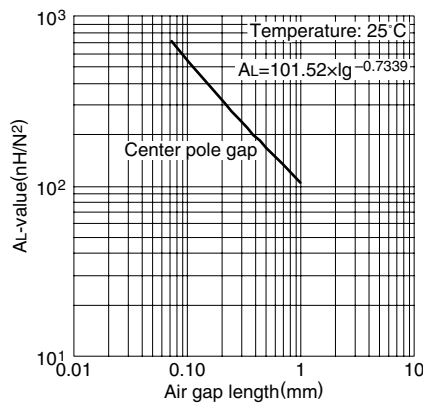
Part No.	AL-value (nH/N ²)*	Core loss (W) 100kHz, 200mT
PC90ELT18X7.3-Z	3100±25%	0.7(100°C)
PC95ELT18X7.3-Z	4760±25%	0.6/0.55/0.6(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

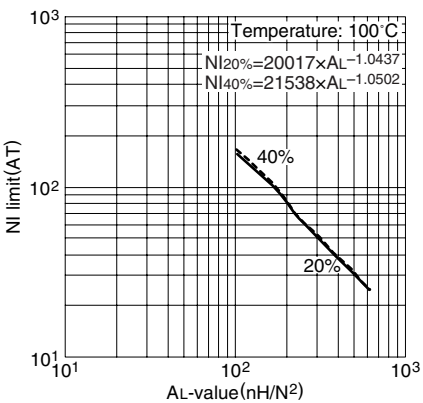
NI limit vs. AL-value for PC90ELT18X7.3 gapped core (Typical)



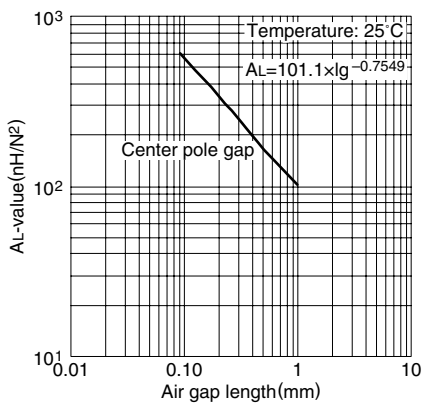
AL-value vs. Air gap length for PC90ELT18X7.3 core (Typical)



NI limit vs. AL-value for PC95ELT18X7.3 gapped core (Typical)



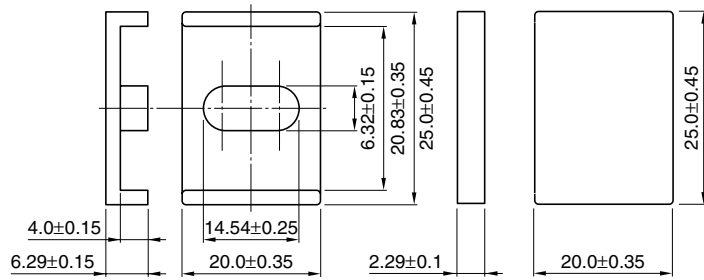
AL-value vs. Air gap length for PC95ELT18X7.3 core (Typical)



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

Measuring conditions • Coil: ϕ 0.18 2UEW 100Ts
• Frequency: 1kHz
• Level: 0.5mA

ELT Series ELT25X8.6 Cores



Dimensions in mm

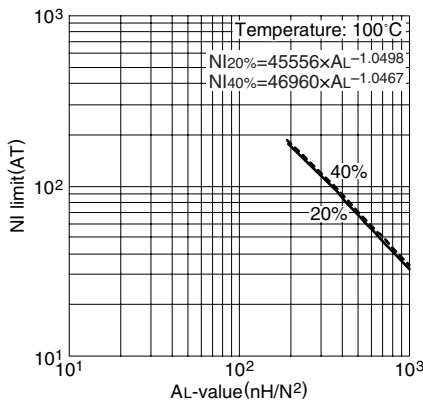
PARAMETER

Core factor	C1	mm ⁻¹	0.350
Effective magnetic path length	ℓ_e	mm	30.0
Effective cross-sectional area	Ae	mm ²	85.6
Effective core volume	Ve	mm ³	2570
Cross-sectional winding area of core	Acw	mm ²	29.0
Weight (approx.)	g		15

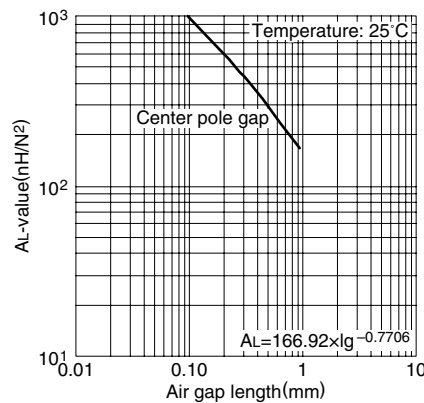
Part No.	AL-value (nH/N ²)*	Core loss (W) 100kHz, 200mT
PC90ELT25X8.6-Z	5400±25%	1.8(100°C)
PC95ELT25X8.6-Z	7540±25%	1.6/1.5/1.6(25°C/80°C/120°C)

* 1kHz, 0.5mA, 100Ts

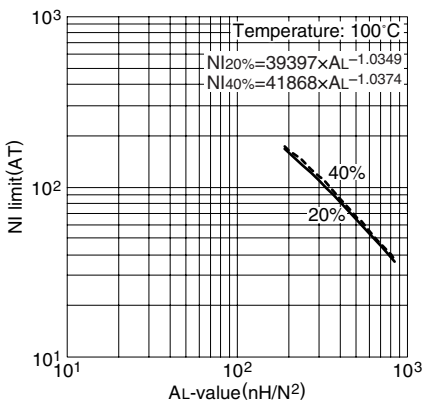
NI limit vs. AL-value for PC90ELT25X8.6 gapped core (Typical)



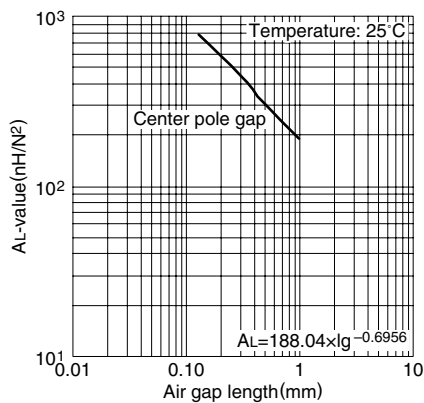
AL-value vs. Air gap length for PC90ELT25X8.6 core (Typical)



NI limit vs. AL-value for PC95ELT25X8.6 gapped core (Typical)



AL-value vs. Air gap length for PC95ELT25X8.6 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: ϕ 0.18 2UEW 100Ts
• Frequency: 1kHz
• Level: 0.5mA