

# Ferrite Cores

# EE, ER, EEM Series

For Power Supply and Signal Transformer  
Thin Ferrite Cores for SMD Transformers

## CORE SHAPES AND DIMENSIONS/CHARACTERISTICS

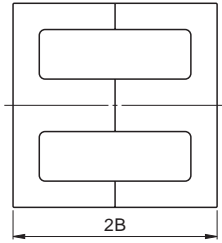


Fig. 1

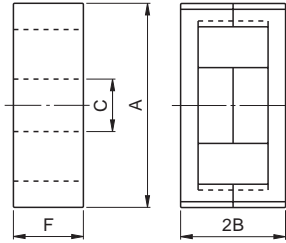


Fig. 2

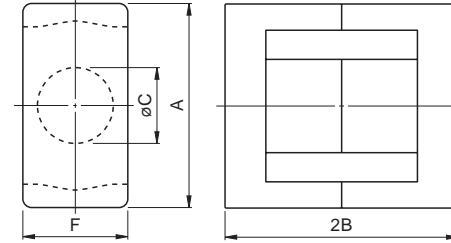


Fig. 3

Type	Fig.	Dimensions (mm)				Ae (mm <sup>2</sup> )	le (mm)
		A	2B	C	F		
EE5	1	5.25±0.05	5.3±0.1	1.35±0.05	1.95±0.05	2.67	12.6
EE8.9/8	1	8.86±0.2	8±0.3	1.9±0.12	1.9±0.12	4.96	15.6
ER9.5/5	2	9.35±0.15	4.9±0.1	∅3.4±0.1	4.9±0.1	8.47	14.2
ER11/3.9	2	10.83±0.18	3.85±0.1	∅4.13±0.13	5.9±0.1	11.7	12.6
ER11/5	2	10.83±0.18	4.9±0.1	∅4.13±0.13	5.9±0.1	11.9	14.7
ER14.5/6	2	14.5±0.2	5.9±0.1	∅4.7±0.1	6.7±0.1	17.6	19
EEM12.7/13.7	3	12.75±0.25	13.7±0.3	6±0.1	3.3±0.15	12	27.3

## ELECTRICAL CHARACTERISTICS WITHOUT AIR GAP

Part No.	AL-value (nH/N <sup>2</sup> )	Calculated output power*(W)
H5C3EE5-Z	980min. [10kHz, 10mV, 100Ts]	
PC44EE5-Z	200min. [1kHz, 0.5mA, 100Ts]	1.1[100kHz]
PC44EE8.9/8-Z	480±25% [1kHz, 0.5mA, 100Ts]	1.9[100kHz]
H5C3ER9.5/5-Z	3500min. [10kHz, 10mV, 100Ts]	
PC44ER9.5/5-Z	610min. [1kHz, 0.5mA, 100Ts]	3.9[100kHz]
PC50ER9.5/5-Z	750±25% [1kHz, 0.5mA, 100Ts]	9.6[500kHz]
H5C3ER11/3.9-Z	4900min. [10kHz, 10mV, 100Ts]	
PC44ER11/3.9-Z	1040min. [1kHz, 0.5mA, 100Ts]	3.8[100kHz]
PC50ER11/3.9-Z	1100±25% [1kHz, 0.5mA, 100Ts]	9.2[500kHz]

Part No.	AL-value (nH/N <sup>2</sup> )	Calculated output power*(W)
H5C3ER11/5-Z	4760min. [10kHz, 10mV, 100Ts]	
PC44ER11/5-Z	870min. [1kHz, 0.5mA, 100Ts]	5[100kHz]
PC50ER11/5-Z	960±25% [1kHz, 0.5mA, 100Ts]	11[500kHz]
H5C3ER14.5/6Z	5950min. [10kHz, 10mV, 100Ts]	
PC44ER14.5/6Z	1280min. [1kHz, 0.5mA, 100Ts]	9.5[100kHz]
PC50ER14.5/6Z	1150±25% [1kHz, 0.5mA, 100Ts]	19[500kHz]
PC44EEM12.7/13.7-Z	820±25% [10kHz, 10mV, 100Ts]	9.5[100kHz]
PC50EEM12.7/13.7-Z	580±25% [10kHz, 10mV, 100Ts]	20[500kHz]

\*The values were obtained with forward converter mode.



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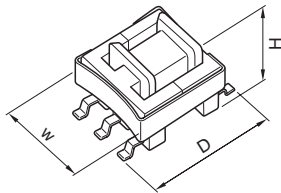
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## WITH AIR GAP

Part No.	AL-value (nH/N <sup>2</sup> )[1kHz, 0.5mA, 100Ts]
PC44ER9.5/5AXXX*	63±5%, 100±7%
PC50ER9.5/5AXXX	63±5%, 100±7%
PC44ER11/3.9AXXX	63±5%, 100±7%
PC50ER11/3.9AXXX	63±5%, 100±7%
PC44ER11/5AXXX	63±5%, 100±7%
PC50ER11/5AXXX	63±5%, 100±7%
PC44ER14.5/6AXXX	100±5%, 160±7%
PC50ER14.5/6AXXX	100±5%, 160±7%
PC44ER12.7/13.7AXXX	40±5%, 63±7%
PC50EEM12.7/13.7AXXX	40±5%, 63±7%

\* XXX: AL-value

## BOBBINS



Part No.	No. of pin terminal	Dimensions (mm)			Clamp*
		W	D	H	
BE-5-916F	6	5.7	7.8	4.8	FE-5-A
BE-5-926F	6	5.7	7.8	4.8	FE-5-A
BE-8.9/8-118G	8	9.3	11.3	4.8	
BER9.5/5-118GA	8	9.9	11.7	5.9	FER9.5/5-A
BER11/3.9-1110G	10	11	12.6	4.7	
BER11/5-1110GA	10	11.5	12.3	6.4	FER11/5-A
BER14.5/6-1110GA	10	15.1	16.2	7.3	FER14.5/6-A
BEM12.7/13.7-118GA	8	13.6	16.8	5	FEM12.7/13.7-A

\* Clamp material: Stainless steel

• Bobbin material: FR phenol, UL Grade: 94V-0

• Pin material

BE; Phosphor bronze (Solder plated), BER and BEM; Steel wire (Solder plated)