



HAHN

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The HAHN - “converter-platform”

HAHN offers solutions for product developers of switching power supplies. In response to the variety of designs which are available on the market, HAHN combines demands and wishes of the developers to quick solutions.

Our “converter-platform” supplies switching power supply transformers up to 50 W according to the current requirements of IEC / EN 61558-2-16:2009 for double / reinforced insulation.

With constructive suggestions and readily available components for creepage distance requirements > 5.5 mm, our “converter-platform” provides solutions for your power supply developments, regardless of your chosen and used switching regulator topology.

With your design proposals or our available simulation and calculation programs, our R&D department realizes and delivers quick solutions.

The “converter-platform” additionally accelerates the preparation of documents for quotes, design and manufacturing. Our self-developed measuring devices offer in advance the possibility to pattern your converters perfectly.

The use of the same components (covered by our insulation system UL 1446 for insulation class B and F) and same structures in the development and production provides rationalization that will pay off for you. This stands for a quick and economical solution.

The implementation of component tests, such as the additional requirements for insulation materials such as the coil former, according to EN 60335-1, paragraph 30, provide significantly more time- and cost savings for the certification of your application.

Rapid delivery by parallel manufacturing and advantageous assembly conditions are favorable for fast delivery in the pre-and series production.

For any question please feel free to contact us:

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BIC: HELADEF1LAU

Volksbank Mittelhessen
IBAN: DE03 5139 0000 0094 8214 01
BIC: VBMHDE5F

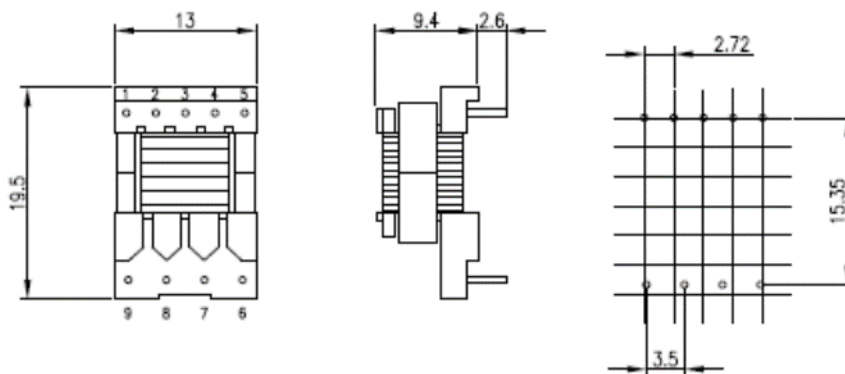
Commerzbank AG
IBAN: DE89 5134 0013 0205 7610 00
BIC: COBADEFF

Amtsgericht Giessen HRA 103922
Geschäftsführer: Klaus Dieter Hahn, Marta Hahn

The HAHN - "converter-platform"

core designation	EF 13/6/4 (EF 12,6)
dimension [mm]	13x12,3x3,7
effective area Ae [mm ²]	12,4
Inductance factor Al [nH/n ²] without gap	850
calculated output power of converter	
max outputpower @ 20 kHz/W	1
max outputpower @ 50 kHz/W	2
max outputpower @ 100 kHz/W	3
max outputpower @ 250 kHz/W	4
coil former	
max winding cross section [mm ²]	10,5
camber width [mm]	7
max. pins	9
pin diameter [mm]	0,6

drawing (view: pinside)

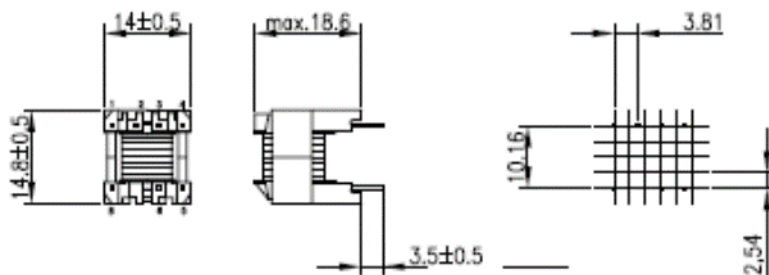


creepage distance [mm] > 6 P-1212

The HAHN - "converter-platform"

core designation	EF 13/6/6
dimension [mm]	13x12,3x6,4
effective area A_e [mm ²]	20,8
Inductance factor Al [nH/n ²] without gap	1450
calculated output power of converter	
max outputpower @ 20 kHz/W	3
max outputpower @ 50 kHz/W	4
max outputpower @ 100 kHz/W	5
max outputpower @ 250 kHz/W	6
coil former	
max winding cross section [mm ²]	10,7
camber width [mm]	7
max. pins	8
pin diameter [mm]	0,64 x 0,64

drawing (view: pinside)



creepage distance [mm] > 6

The HAHN - "converter-platform"

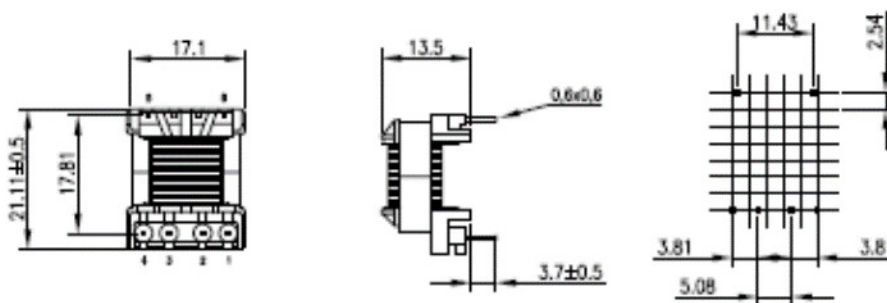
core designation **EF 16/8/5**

dimension [mm] 16x16x4,5
 effective area A_e [mm²] 20,4
 Inductance factor Al [nH/n²] without gap 1000

calculated output power of converter
 max outputpower @ 20 kHz/W 4
 max outputpower @ 50 kHz/W 5
 max outputpower @ 100 kHz/W 7
 max outputpower @ 250 kHz/W 14

coil former
 max winding cross section [mm²] 19,3
 camber width [mm] 10
 max. pins 8
 pin diameter [mm] 0,6 x 0,6

drawing (view: pinside)



creepage distance [mm] > 8

The HAHN - "converter-platform"

core designation

EF 20/10/6

dimension [mm] 20,4x20,2x5,9
 effective area A_e [mm²] 32
 Inductance factor Al [nH/n²] without gap 1470

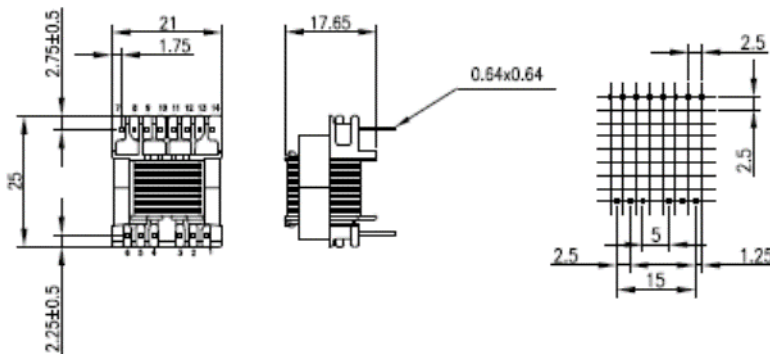
calculated output power of converter

max outputpower @ 20 kHz/W 6
 max outputpower @ 50 kHz/W 9
 max outputpower @ 100 kHz/W 13
 max outputpower @ 250 kHz/W 25

coil former

max winding cross section [mm²] 29,7
 camber width [mm] 11
 max. pins 14
 pin diameter [mm] 0,64 x 0,64

drawing (view: pinside)



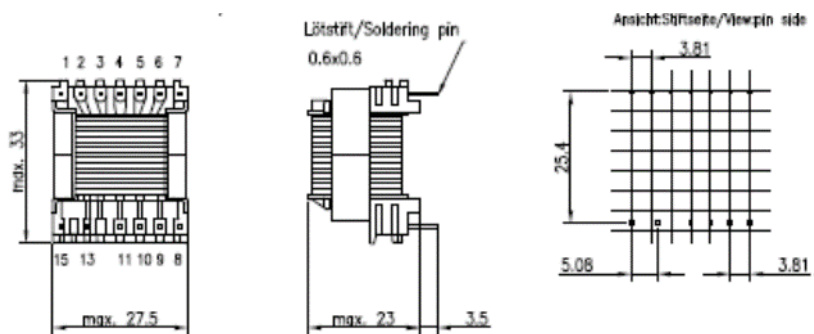
creepage distance [mm]

> 8

The HAHN - "converter-platform"

core designation	EF 25/13/7 (EF25)
dimension [mm]	25,4x25,2x7,2
effective area A_e [mm ²]	52
Inductance factor Al [nH/n ²] without gap	1850
calculated output power of converter	
max outputpower @ 20 kHz/W	14
max outputpower @ 50 kHz/W	23
max outputpower @ 100 kHz/W	34
max outputpower @ 250 kHz/W	61
coil former	
max winding cross section [mm ²]	73
camber width [mm]	15,5
max. pins	15
pin diameter [mm]	0,75 x 0,75

drawing (view: pinside)

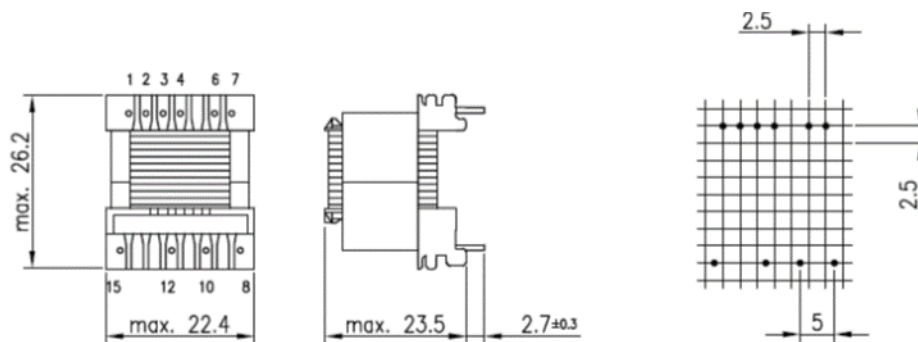


creepage distance [mm] > 8

The HAHN - "converter-platform"

core designation	EF 20/10/11
dimension [mm]	20,4x20,2x10,8
effective area A_e [mm ²]	60,5
Inductance factor Al [nH/n ²] without gap	2800
calculated output power of converter	
max outputpower @ 20 kHz/W	17
max outputpower @ 50 kHz/W	28
max outputpower @ 100 kHz/W	38
max outputpower @ 250 kHz/W	75
coil former	
max winding cross section [mm ²]	46,3
camber width [mm]	11
max. pins	14
pin diameter [mm]	0,64 x 0,64

drawing (view: pinside)

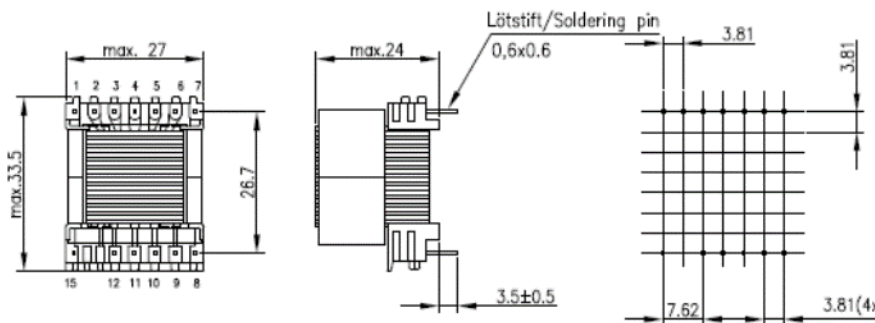


creepage distance [mm] > 8

The HAHN - "converter-platform"

core designation	EVD 25/13/13
dimension [mm]	25,8x25,6x12,7
effective area A_e [mm ²]	73
Inductance factor Al [nH/n ²] without gap	2700
calculated output power of converter	
max outputpower @ 20 kHz/W	19
max outputpower @ 50 kHz/W	31
max outputpower @ 100 kHz/W	43
max outputpower @ 250 kHz/W	83
coil former	
max winding cross section [mm ²]	73
camber width [mm]	15,5
max. pins	15
pin diameter [mm]	0,6 x 0,6

drawing (view: pinside)

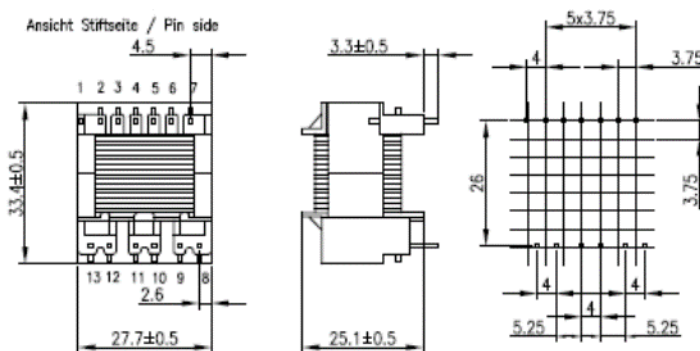


creepage distance [mm] > 8

The HAHN - "converter-platform"

core designation	EF 25/13/11
dimension [mm]	25,4x25,2x10,7
effective area Ae [mm ²]	77
Inductance factor Al [nH/n ²] without gap	3150
calculated output power of converter	
max outputpower @ 20 kHz/W	21
max outputpower @ 50 kHz/W	34
max outputpower @ 100 kHz/W	47
max outputpower @ 250 kHz/W	92
coil former	
max winding cross section [mm ²]	73
camber width [mm]	15,5
max. pins	13
pin diameter [mm]	0,75 x 0,75

drawing (view: pinside)



creepage distance [mm] > 8