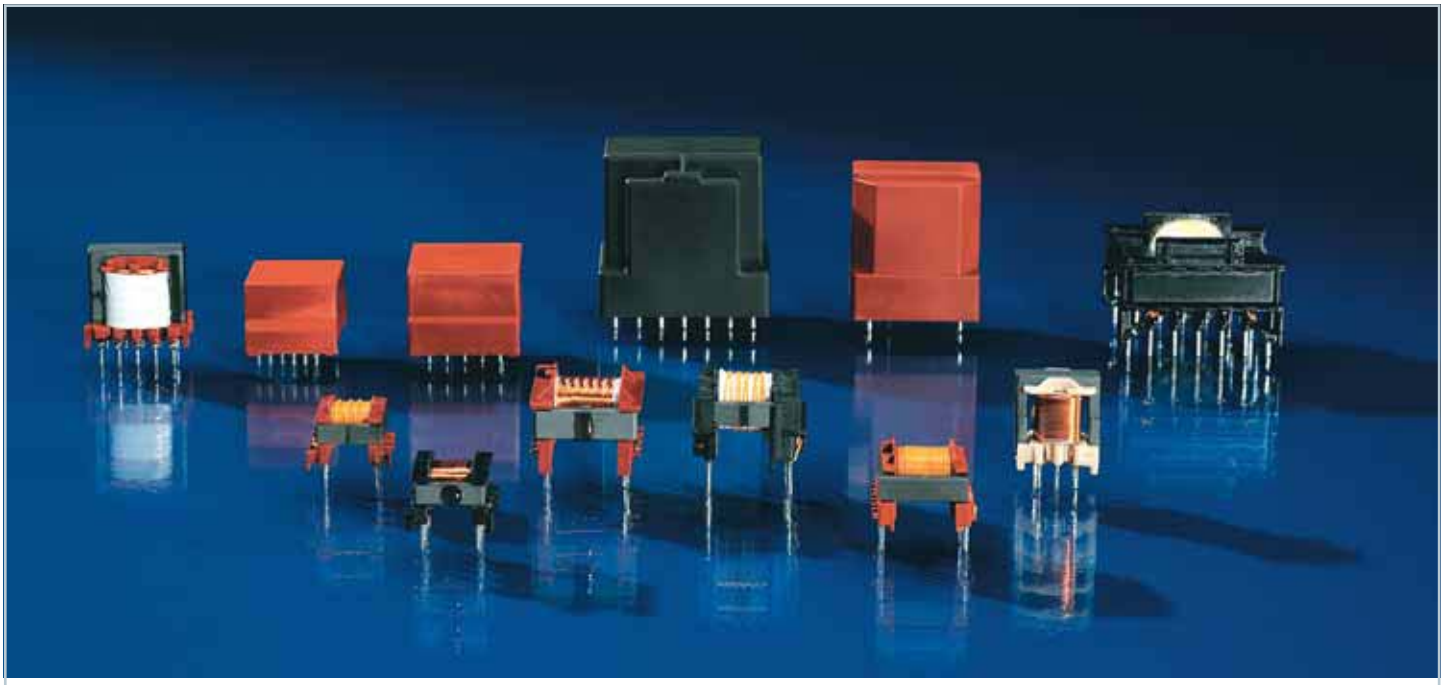
Flyback Converters for Switch Mode Power Supplies of the Type EF



HAHN Flyback Converters with the following characteristics:

- Construction to EN 61 558, EN 60 950
- operational frequency 10 – 500 kHz
- increased creeping distance 8 mm possible

Insulating material classifications

- E / 120 °C
- B / 130 °C (optional)
- F / 155 °C (optional)
- UL 94-V0 (optional)
- 100 % unleaded

100 % piece inspections

- Inductivity
- Turns ratio
- Winding direction
- Voltage resistance (50 Hz/2 s)

Switch Mode Power Supplies with HAHN Flyback Converters – can be employed for lower and middle range capacities with the structural size quantities EF 12,6 to EF 30. The use in manufacture of high quality core materials enables operational frequencies up to 500 kHz.

All HAHN Flyback Converters are manufactured to EN 60 950 and EN 61 558 standards. Considerable know-how and specialist experience in transformer technology for open, encapsulated, impregnated or vacuum encapsulated converters are guarantees for HAHN quality and optimum customer benefit. All converters are customer-specific finished to customer specifications.

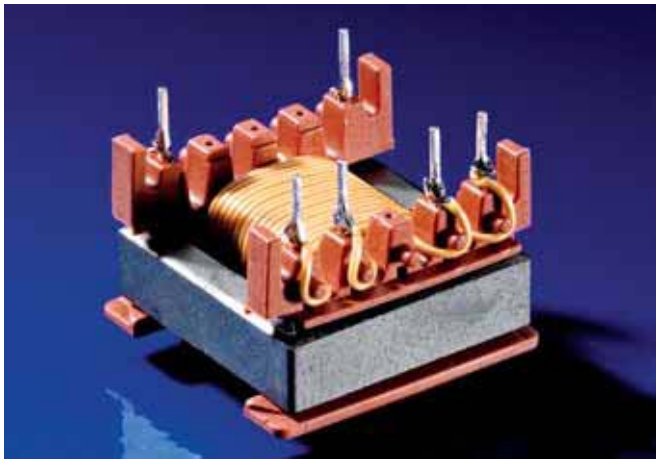
Current developments in electronic components involve ever shorter research and development time periods and every greater manufacturing reliability.

HAHN has the opportunity of optimally developing flyback converters for well known manufacturers of regulator controllers, e.g. Power Integration, Infinion, Philips or ON Semiconductor as customer-specific components. These were all rapid-, economic- and high quality problem solutions from HAHN.

Size	Capacity*
EF 12,6/4	up to 5 W
EF 16/5	up to 9 W
EF 20/6	up to 20 W
EF 25/7	up to 45 W
EF 30/7	up to 70 W

* Dependent on input voltage range and switch governor type.

Standard Flyback Converter of the Type EF 20/6

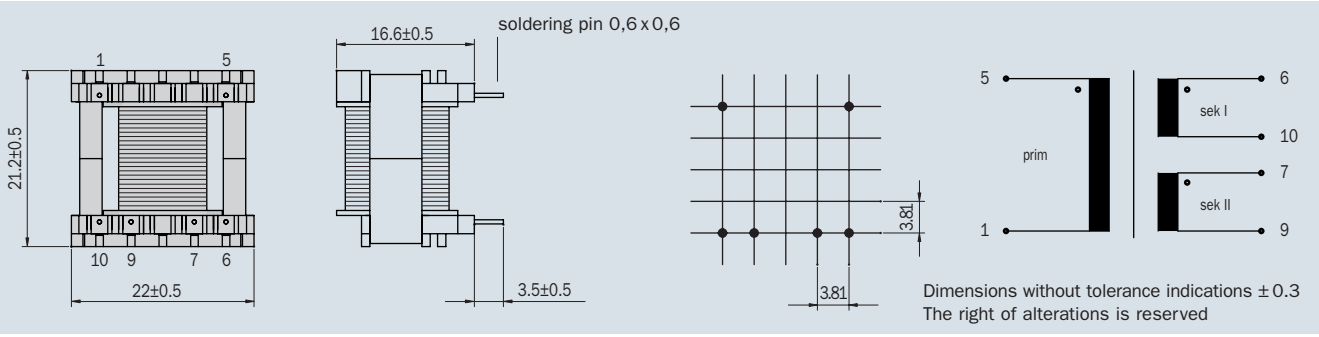


Technical Specifications

- Construction to EN 61 558, EN 60 950
- **Creeping distance 4 mm min.**
- 100 % unleaded
- UL listed materials
- Insulation material class E
- Two outputs for connection in parallel or in series(*)

100 % piece inspection

- Inductance
- Turns ratio
- Winding direction
- Voltage resistance (50 Hz/2 s)



Dimensions without tolerance indications ± 0.3
The right of alterations is reserved

TinySwitch-II® Product Family TNY 267/8 W

Order No.	Output [W]	Primary voltage [V]	Connecting pin prim	Secondary voltage I [V]	Current sec I [mA]	Connecting pin sec I	Secondary voltage II [V]	Current sec II [mA]	Connecting pin sec II	
V 50200*	8.0	85 – 265	1 – 5	3	1330	6 – 10	3	1330	7 – 9	
V 50201*	8.0	85 – 265	1 – 5	9	440	6 – 10	9	440	7 – 9	
V 50202*	8.0	85 – 265	1 – 5	12	330	6 – 10	12	330	7 – 9	
V 50203*	8.0	85 – 265	1 – 5	15	270	6 – 10	15	270	7 – 9	
V 50204	8.0	85 – 265	1 – 5	12	640	6 – 7	3.3	100	9 – 10	New!
V 50205	8.0	85 – 265	1 – 5	24	320	6 – 7	3.3	100	9 – 10	New!
V 50206	8.0	85 – 265	1 – 5	12	625	6 – 7	5	100	9 – 10	New!
V 50207	8.0	85 – 265	1 – 5	24	312	6 – 7	5	100	9 – 10	New!

TinySwitch-III® Product Family TNY 279/16 W

Order No.	Output [W]	Primary voltage [V]	Connecting pin prim	Secondary voltage I [V]	Current sec I [mA]	Connecting pin sec I	Secondary voltage II [V]	Current sec II [mA]	Connecting pin sec II
V 50210*	16.0	85 – 265	1 – 5	3	2670	6 – 10	3	2670	7 – 9
V 50211*	16.0	85 – 265	1 – 5	9	890	6 – 10	9	890	7 – 9
V 50212*	16.0	85 – 265	1 – 5	12	670	6 – 10	12	670	7 – 9
V 50213*	16.0	85 – 265	1 – 5	15	530	6 – 10	15	530	7 – 9

TinySwitch-III® Product Family TNY 278/16 W

Order No.	Output [W]	Primary voltage [V]	Connecting pin prim	Secondary voltage I [V]	Current sec I [mA]	Connecting pin sec I	Secondary voltage II [V]	Current sec II [mA]	Connecting pin sec II	
V 50214	16.0	85 – 265	1 – 5	12	1300	6 – 7	3.3	100	9 – 10	New!
V 50215	16.0	85 – 265	1 – 5	24	650	6 – 7	3.3	100	9 – 10	New!
V 50216	16.0	85 – 265	1 – 5	12	1290	6 – 7	5	100	9 – 10	New!
V 50217	16.0	85 – 265	1 – 5	24	645	6 – 7	5	100	9 – 10	New!