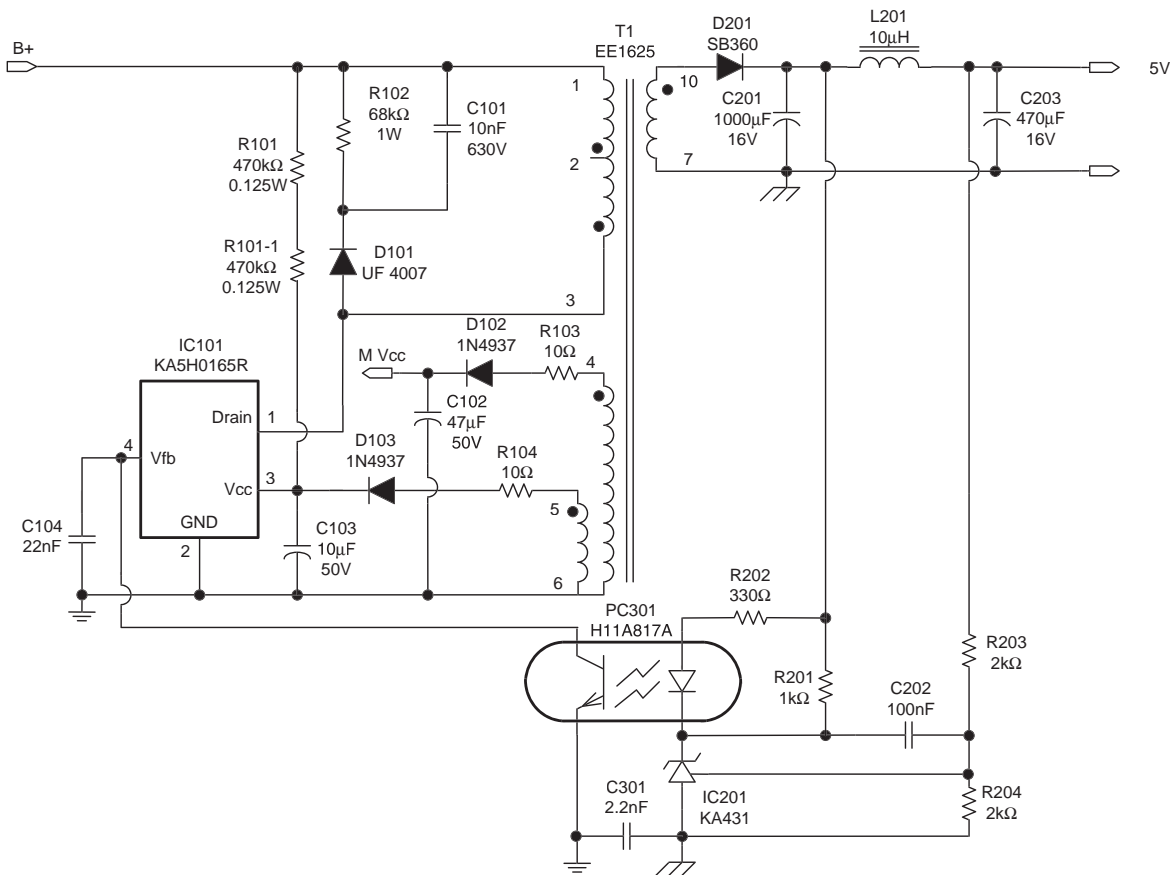


# AB-56 Auxiliary Power Applications

## AX-10W-KA5H0165R – 10 Watts

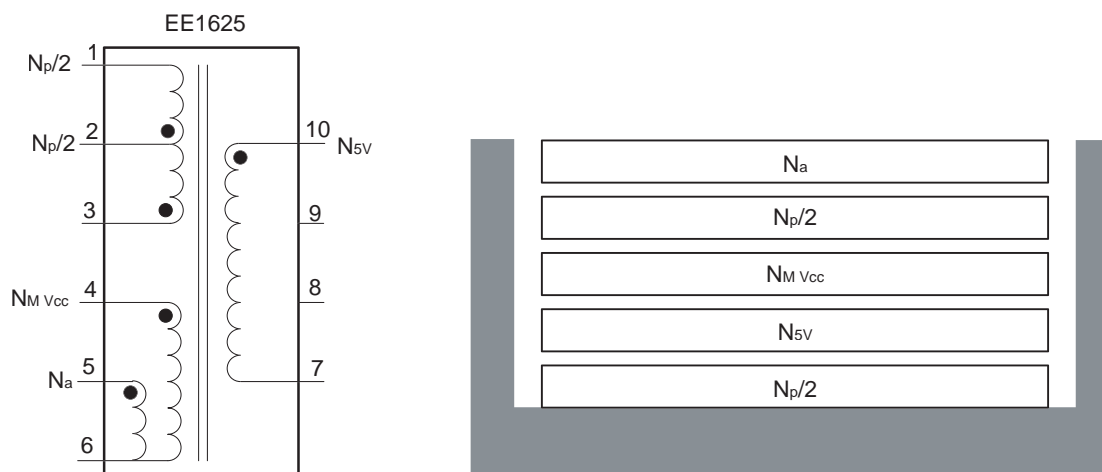
Application	FPS Device	Input Voltage Range	Rated Output Power	Output Voltage (Rated Current)
Auxiliary Power	KA5H0165R	85–265 Vac	10W	5V (2.0A)

### 1. Schematic Diagram



## 2. Transformer

### 2.1. Transformer Schematic Diagram



### 2.2. Winding Specification

	Pin (S → F)	Wire	Turns	Winding Method
$N_p/2$	3 → 2	0.15Φ x 1	80	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 3 Layers				
$N_{5V}$	10 → 7	0.55Φ x 1	12	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 3 Layers				
$N_{M Vcc}$	4 → 6	0.2Φ x 1	40	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 2 Layers				
$N_p/2$	2 → 1	0.15Φ x 1	80	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 3 Layers				
$N_a$	5 → 6	0.2Φ x 1	34	Solenoid winding
Outer Insulation: Polyester Tape t = 0.050mm, 3 Layers				

Core: EE1625 ( $A_e = 19.6\text{mm}^2$ )

Bobbin: EE1625

### 2.3. Electrical Characteristics

	Pin	Spec.	Remark
Inductance	1–3	1.8 mH	1kHz, 1V
Leakage	1–3	100 μH	Short all other pins

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E <sup>2</sup> C MOS™	PC™	MSX™	QT Optoelectronics™	TinyLogic®
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FACT Quiet Series™		OCXPro™	RapidConnect™	UHC™
Across the board. Around the world.™		OPTOLOGIC®	µSerDes™	UltraFET®
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