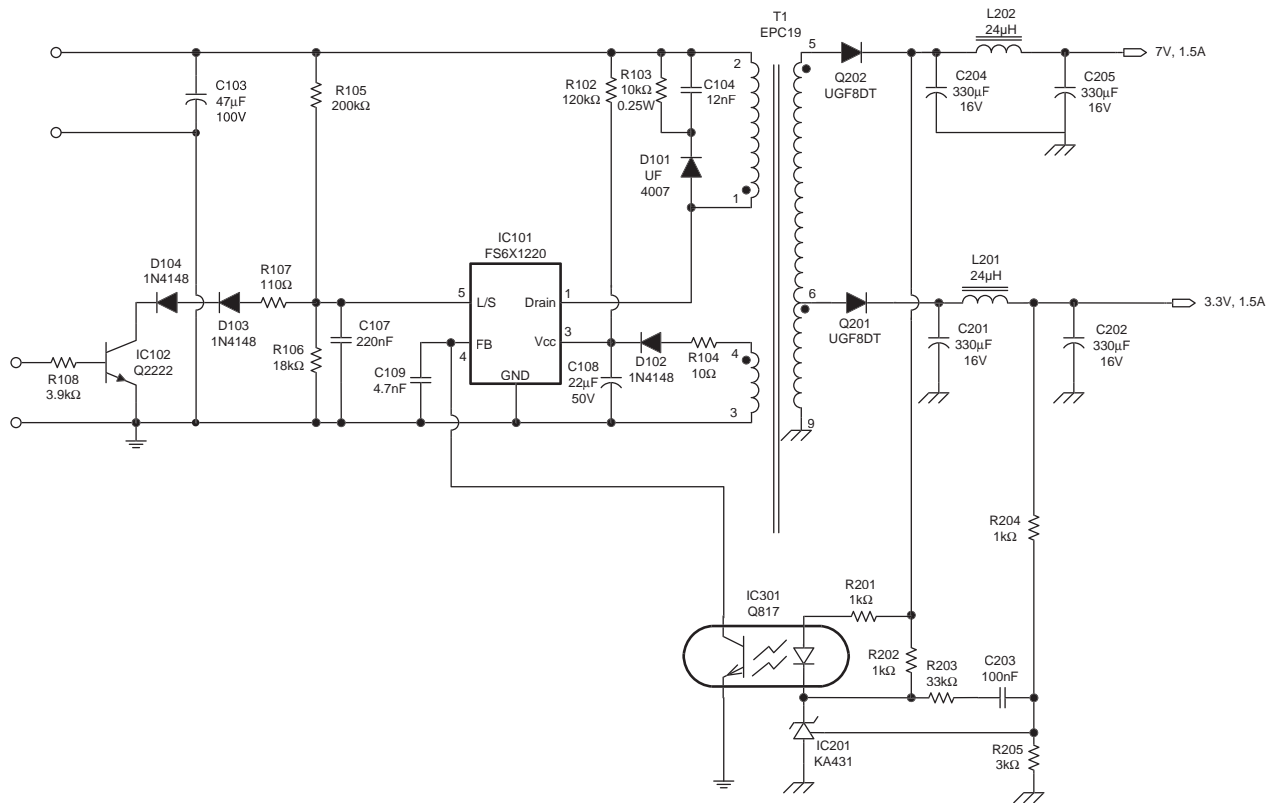


# AB-44 Power Over Ethernet Applications

## DC-14W-FS6X1220 – 14 Watts

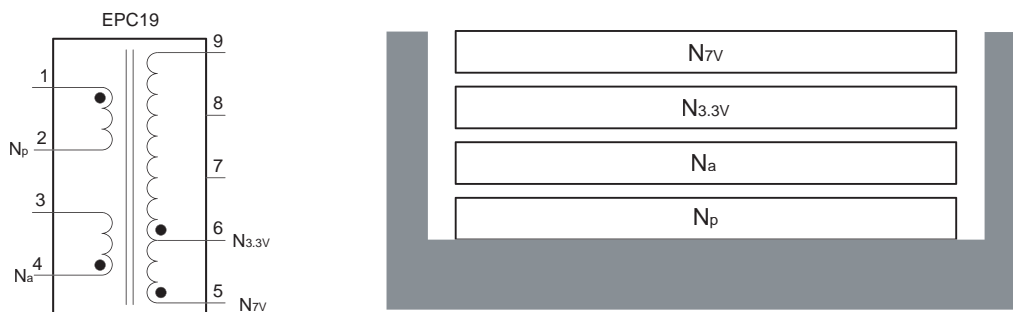
Application	FPS Device	Input Voltage Range	Rated Output Power	Output Voltage (Rated Current)
PoE (Power on Ethernet)	FS6X1220RD	36–72 Vdc	14W	3.3V (1.5A) 7.0V (1.5A)

### 1. Schematic Diagram



## 2. Transformer

### 2.1. Transformer Schematic Diagram



### 2.2. Winding Specification

	Pin (S → F)	Wire	Turns	Winding Method
$N_p$	1 → 2	0.6Φ x 1	78	Solenoid winding
$N_a$	4 → 3	0.3Φ x 1	32	Solenoid winding
$N_{7V}$	5 → 6	0.6Φ x 1	9	Solenoid winding
$N_{3.3V}$	6 → 9	0.6Φ x 1	21	Solenoid winding

Core: EPC19 ( $A_e = 22.7 \text{ mm}^2$ )

Bobbin: EPC19

### 2.3. Electrical Characteristics

	Pin	Spec.	Remark
Inductance	1–3	22 $\mu\text{H}$	300 kHz, 1V
Leakage	1–3	2 $\mu\text{H}$	Short all other pins

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EnSigna™	i-Lo™	MSXPro™	Quiet Series™	TINYOPTO™
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FACT Quiet Series™		OCXPro™	RapidConnect™	UHC™
Across the board. Around the world.™		OPTOLOGIC®	µSerDes™	UltraFET®
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Rev. 115