

# AB-58 Color-TV Applications

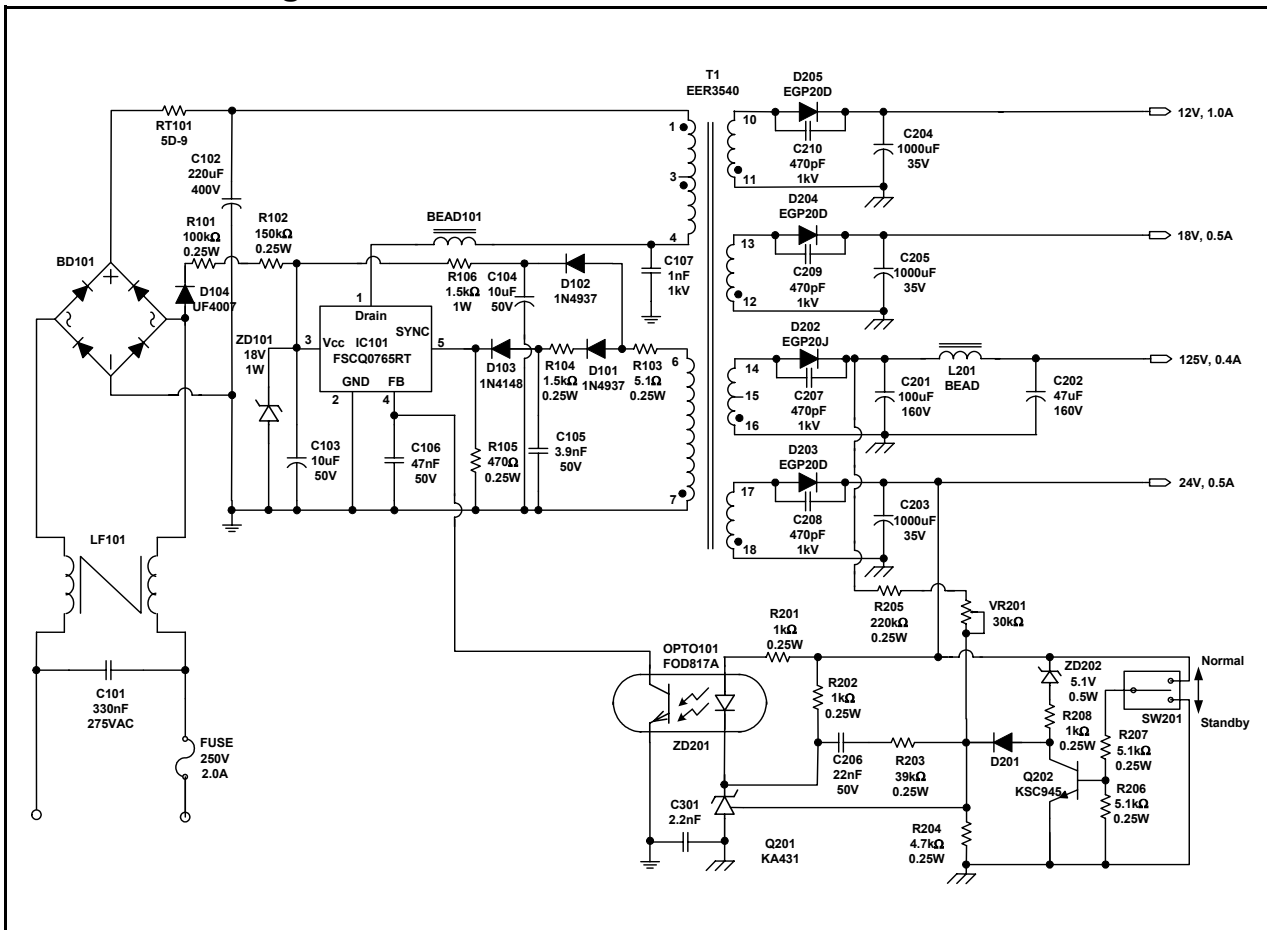
## FSCQ0765RT – 83 Watts

Application	Output Power	Input Voltage	Output Voltage (Max Current)
C-TV	83W	Universal Input (90-270Vac)	12V (1A)
			18V (0.5A)
			125V (0.4A)
			24V (0.5A)

### Features

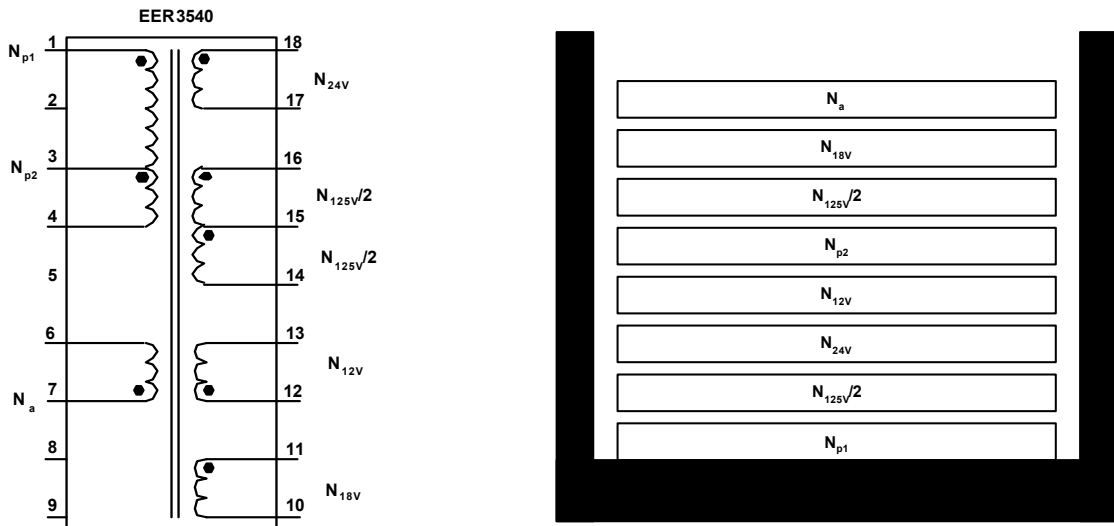
- High Efficiency (>83% at 90Vac Input)
- Wider Load Range through the Extended Quasi-Resonant Operation
- Low Standby Mode Power Consumption (<1W)
- Low Component Count
- Enhanced System Reliability through Various Protection Functions
- Internal Soft-start (20ms)

### 1. Schematic Diagram



## 2. Transformer

### 2.1. Transformer Schematic Diagram



### 2.2. Winding Specifications

No	Pin (s→f)	Wire	Turns	Winding Method
N <sub>p1</sub>	1 - 3	0.5 $\phi$ × 1	32	Center Winding
N <sub>125V/2</sub>	16 - 15	0.5 $\phi$ × 1	32	Center Winding
N <sub>24V</sub>	18 - 17	0.4 $\phi$ × 2	13	Center Winding
N <sub>12V</sub>	12 - 13	0.5 $\phi$ × 2	7	Center Winding
N <sub>p2</sub>	3 - 4	0.5 $\phi$ × 1	32	Center Winding
N <sub>125V/2</sub>	15 - 14	0.5 $\phi$ × 1	32	Center Winding
N <sub>18V</sub>	11 - 10	0.4 $\phi$ × 2	10	Center Winding
N <sub>a</sub>	7 - 6	0.3 $\phi$ × 1	20	Center Winding

### 2.3. Electrical Characteristics

	Pin	Specification	Remarks
Inductance	1 - 3	515uH ± 5%	1kHz, 1V
Leakage Inductance	1 - 3	10uH Max	2 <sup>nd</sup> All Short

### 2.4. Core & Bobbin

Core: EER3540  
 Bobbin: EER3540  
 Ae: 107 mm<sup>2</sup>

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