

AB-48 DVD Applications

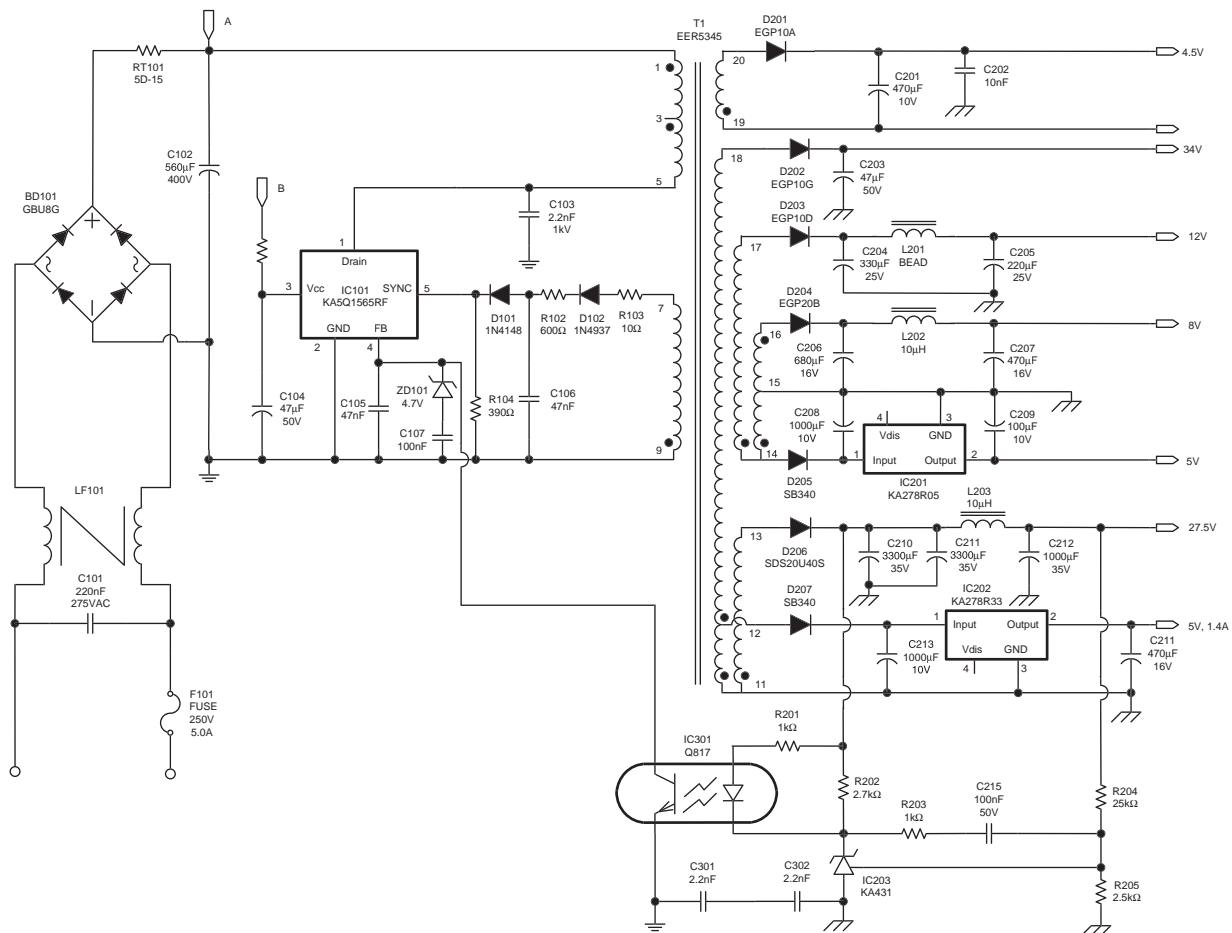
DV-255W-KA5Q1565 – 255 Watts

Application	FPS Device	Input Voltage Range	Rated Output Power	Output Voltage (Rated Current)
DVD Receiver	KA5Q1565RF	85–265 Vac	200W (average) 255W (peak)	4.5V (0.1A) – VFD 34V (1.0A) 27.5V (average: 4.0A / peak: 6A) 12V (2.0A) 8V (2.5A) 5V (1.4A) 3.3V (1.4A)

Features

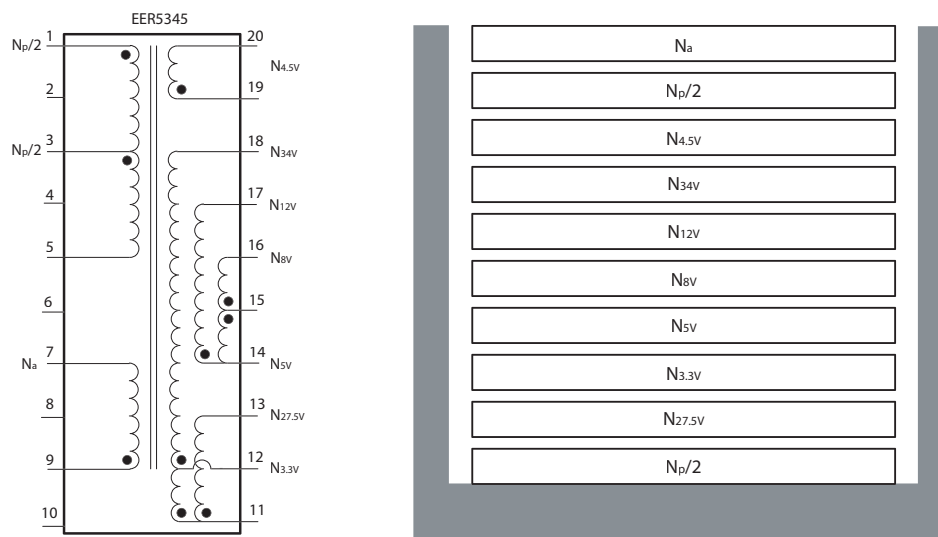
- High efficiency (>83%) and low EMI through Quasi-resonant operation
- Various Protection functions against over load, over voltage, over current and over temperature.

1. Schematic Diagram



2. Transformer

2.1. Transformer Schematic Diagram



2.2. Winding Specification

	Pin (S → F)	Wire	Turns	Winding Method
$N_p/2$	1 → 3	$0.6\Phi \times 4$	16	Solenoid winding
Insulation: Polyester Tape $t = 0.050\text{mm}$, 3 Layers				
$N_{27.5V}$	11 → 13	Copper Plate	6	
Insulation: Polyester Tape $t = 0.050\text{mm}$, 1 Layers				
$N_{3.3V}$	11 → 12	$0.4\Phi \times 3$	1	Space winding
Insulation: Polyester Tape $t = 0.050\text{mm}$, 1 Layers				
N_{5V}	15 → 14	$0.4\Phi \times 3$	2	Space winding
Insulation: Polyester Tape $t = 0.050\text{mm}$, 1 Layers				
N_{8V}	15 → 16	$0.4\Phi \times 2$	2	Space winding
Insulation: Polyester Tape $t = 0.050\text{mm}$, 1 Layers				
N_{12V}	14 → 17	$0.3\Phi \times 1$	1	Space winding
Insulation: Polyester Tape $t = 0.050\text{mm}$, 1 Layers				
N_{34V}	12 → 18	$0.3\Phi \times 1$	6	Solenoid winding
Insulation: Polyester Tape $t = 0.050\text{mm}$, 1 Layers				
$N_{4.5V}$	20 → 19	$0.3\Phi \times 1$	1	Solenoid winding
Insulation: Polyester Tape $t = 0.050\text{mm}$, 3 Layers				
$N_p/2$	3 → 5	$0.6\Phi \times 4$	15	Solenoid winding
Insulation: Polyester Tape $t = 0.050\text{mm}$, 2 Layers				
N_a	9 → 7	$0.4\Phi \times 1$	5	Solenoid winding
Outer Insulation: Polyester Tape $t = 0.050\text{mm}$, 3 Layers				

Core: EER5345 ($A_e = 318.44 \text{ mm}^2$)

Bobbin: EER5345

2.3. Electrical Characteristics

	Pin	Spec.	Remark
Inductance	1–5	270 μH	1 kHz, 1V
Leakage	1–5	10 μH	Short all other pins

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FACT Quiet Series™		OCXPro™	RapidConnect™	UHC™
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