| Two-Switch Forward Transformer Specification09/08/15 | | | | | |
|--|--|-------|--|------------------|--|
| Program: | PMP10215 REV_A | | | | |
| Electrical: | | | | | |
| Circuit Topology: | Two-Switch Forward, controller LM5021-2 | | | | |
| Input DC Voltage: | 350Vdc to 450Vdc | | | | |
| Output Power: | 200W continuous, 400W for 5 minutes, 800W peak | | | | |
| Frequency: | 200 KHz | | | | |
| Primary Inductance: | $2 \text{ mH} \pm 20\%$ | | | | |
| Leakage Inductance: | minimize \rightarrow winding interleaving allowed | | | | |
| Shielded: | yes, referred on primary side (internal copper foil) | | | | |
| Turns Ratio: | (2-1 : 3-4) (8-10 : 9-11) (1-3 : 8-10) | | 1:1 1:1 4:1 | | |
| Output Voltage: | 8-10, 9-11: | | 36V @ 5.6A _{CONT} , 11.1A _{(5 m} | in.) 22.2APEAK | |
| Currents (400Vdc_in | duty cycle 36%) 1-3: 8-10, 9-11: | | 1.96A _{RMS} (5min.), 1A _{RMS} (co 7.39A _{RMS} (5min.), 3.7A _{RMS} (| ont.) (cont.) | |
| Isolation Voltage: | 4KVrms, Reinforced insulation (EN60950) | | | | |
| Mechanical: | no specific request | | | | |
| Dimensions: | maximum height 35mm, minimum footprint | | | | |
| Environment: | | | | | |
| Operating Temperatu | re Range: -20 |)C to | o +70C ambient | | |
| Temperature Rise: | 40 | C m | ax during 400W load for 5 minutes | | |
| Cooling: | Natural Convection | | | | |

Schematic: (no need to assign specific pins)

