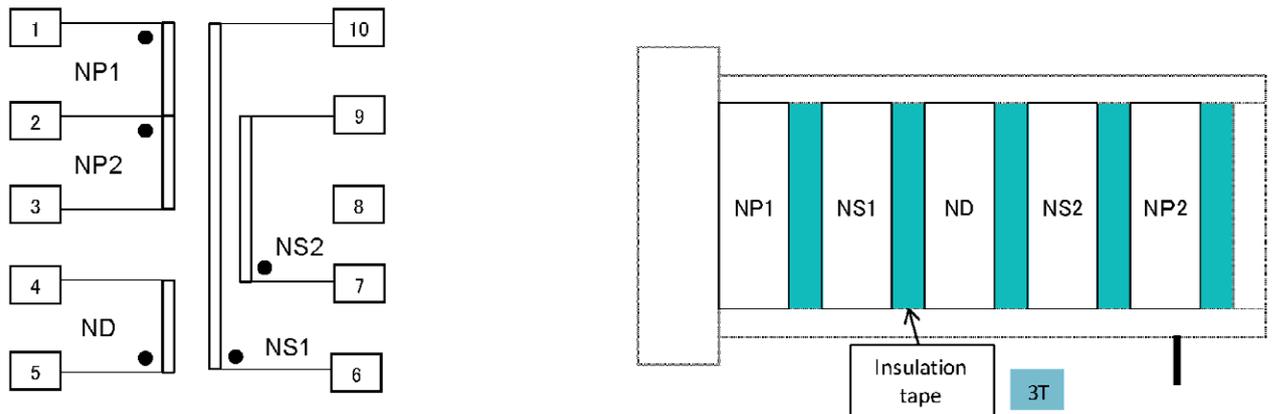


AC/DC Converter Controller Application Information

| | |
|-----------------|---------------------|
| IC Product Name | BM2P094F |
| Control Method | PWM |
| Input | 85 Vac to 276 Vac |
| Output | 5V 0.5A |
| Type | Isolation |
| Document Number | W-I-0500050-0000-00 |
| Revision | 001 |

Transformer Specification



Core: Tomita 2G8-EE13x12x6.3 or compatible

Bobbin: Tomita TBB347 Vertical/Terminal Pins 5-5(10pins) or compatible

AL-Value: 79.1 nH/N²

Inductance(1-3pin): 1.336 mH±15%

| Coil | Terminal | Turns | Wire | Winding Method |
|------|----------|-------|-----------|----------------|
| NP1 | '1-2 | 65 | 2UEW 0.2 | FIT(密) |
| NS1 | '6-10 | 11 | TEX-E 0.4 | 1 Layer FIT(密) |
| ND | '5-4 | 31 | 2UEW 0.2 | 1 Layer FIT(密) |
| NS2 | '7-9 | 11 | TEX-E 0.4 | 1 Layer FIT(密) |
| NP2 | '2-3 | 65 | 2UEW 0.2 | FIT(密) |

耐圧 P-S : AC3.0kVrms 1MIN. 2mA or AC3.6kVrms 1s 2mA

PS-CORE: AC1.5kVrms 1MIN. 2mA or AC1.8kVrms 1s 2mA

IR : P-S, PS-CORE 100 MΩ MIN. at DC 500V

巻始め : バリアテープ固定

巻終り : 直角引き出し挟み込み処理

巻方向 : 統一

Bill of Materials

| Item | Spec | Parts name | Maker |
|------|-----------------|--------------------|-------|
| BD1 | 800V/1A | | |
| C2 | 10uF/50V | | |
| C3 | 2200pF/500V | | |
| C4 | 1000pF/16V | | |
| C5 | 470uF/35V Low-Z | | |
| C7 | 2200pF/Y1 | | |
| C8 | 0.1uF/25V | | |
| C11 | 0.1uF/X2 | | |
| C13 | 10uF/450V | | |
| C20 | 100pF/650V | | |
| D1 | SBD 60V/2A | RB060M-60 | Rohm |
| D2 | 200V/0.5A | RF05VA2S/RF05VAM2S | Rohm |
| D6 | FRD 650V/0.5A | RFN1L7S | Rohm |
| F1 | AC250V/1A | | |
| LF1 | AC Filter | | |
| R4 | 330Ω | MCR10EZPJ331 | Rohm |
| R5 | 2Ω/0.5W | | |
| R6 | 12kΩ | MCR10EZPF1202 | Rohm |
| R7 | 220kΩ/0.25W | MCR25JZHJ224 | Rohm |
| R9 | 1kΩ | MCR10EZPJ102 | Rohm |
| R11 | 12kΩ | MCR10EZPF1202 | Rohm |
| R12 | 33kΩ | MCR10EZPJ333 | Rohm |
| R13 | 51 | MCR10EZPF51R0 | Rohm |
| R14 | 15Ω/0.25W | MCR18EZPJ150 | Rohm |
| T1 | EE13 | YPP1181 | |
| U10 | | PC817 | |
| U11 | | TL431 | |
| U2 | | BM2P094F | Rohm |

Revision History

| Date | Revision | Changes |
|------------|----------|-------------|
| 7.Mar.2014 | 001 | New Release |

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(Note1) Medical Equipment Classification of the Specific Applications

| JAPAN | USA | EU | CHINA |
|-----------|-----------|------------|-----------|
| CLASS III | CLASS III | CLASS II b | CLASS III |
| CLASS IV | | CLASS III | |

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