AC/DC Converter Controller Application Information
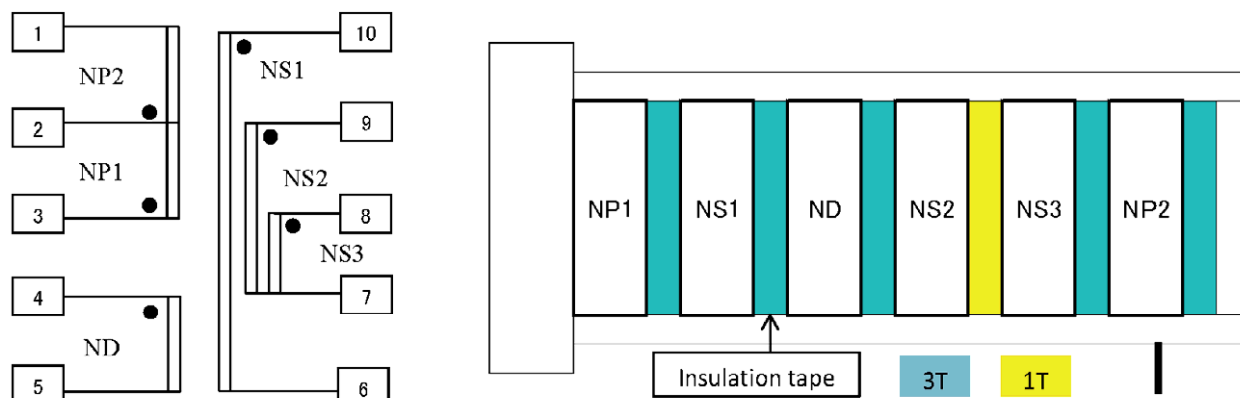
IC Product Name	BM2P034
Control Method	PWM
Input	85 Vac to 288 Vac
Output	15V 0.8A
Type	Isolation
Document Number	W-I-1500080-0000-00
Revision	001

Reference Circuit
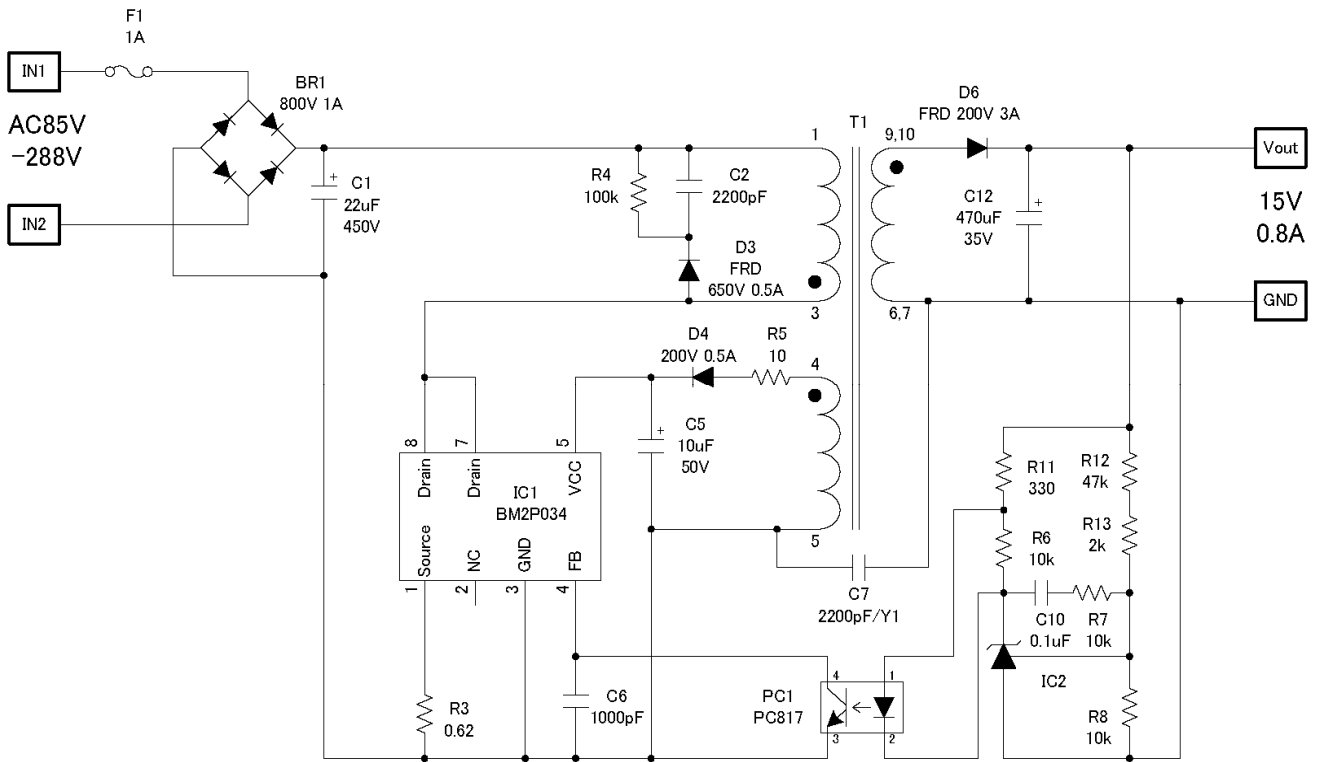
Transformer Specification

Core: Tomita 2G8-EI22 or compatible
Bobbin: Tomita TBB248 Vertical/Terminal Pins 5-5(10pins) or compatible
AL-Value: 135 nH/N^2
Inductance(1-3pin): 0.700 $mH\pm15\%$

Coil	Terminal	Turns	Wire	Winding Method
NP1	'3-2	36	2UEW 0.2	1 Layer FIT(密)
NS1	'10-6	16	TEX-E 0.3	1 Layer FIT(密)
ND	'4-5	17	2UEW 0.2	1 Layer SPACE(均等)
NS2	'9-7	16	TEX-E 0.3	1 Layer FIT(密)
NS3	'8-7	5	TEX-E 0.2	1 Layer SPACE(均等)
NP2	'2-1	36	2UEW 0.2	1 Layer 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
C1	22uF/450V	VR 450V 22uF	Nichicon
C2	2200pF/500V		
C5	10uF/50V	PM 50V 10uF	Nichicon
C6	1000pF/16V		
C7	2200pF/Y1		
C10	0.1uF/25V		
C12	Low-Z 470uF/35V	HD 35V 470uF	Nichicon
BR1	800V/1A	D1VBA80	Shindengen
D3	FRD 650V 0.5A	RFN1L7S	Rohm
D4	200V 0.5A	RF05VA2S/RF05VAM2S	Rohm
D6	FRD 200V 3A	RF301BM2S/RFN3BM2S	Rohm
F1	1A		
IC1		BM2P034	Rohm
R3	0.62Ω/0.5W	MCR25JZHFJR620JLR62	Rohm
R4	100kΩ/1W	MCR25JZHFJR620FLR620	
R5	10Ω	MCR10EZPJ100	Rohm
R6	10kΩ	MCR10EZPJ103	Rohm
R7	10kΩ	MCR10EZPJ103	Rohm
R8	10kΩ	MCR10EZPF1002	Rohm
R11	330Ω	MCR10EZPJ331	Rohm
R12	47kΩ	MCR10EZPF4702	Rohm
R13	2kΩ	MCR10EZPJ202	Rohm
T1	EI22		
IC2		TL431	TI
PC1		PC817	

Revision History

Date	Revision	Changes
7.Mar.2014	001	New Release

W-I-1500080-0000-00
7.Mar.2014

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JAPAN	USA	EU	CHINA
CLASSⅢ	CLASSⅢ	CLASS Ⅱ b	CLASSⅢ
CLASSⅣ		CLASSⅢ	

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