



1847-150  
RWY  
12/19/01

**+13.5V to +16.5V into -150V @ 50mA**

Vin	Iin	Vout	Iout	Efficiency
16.843	0.660	-150.8	0.05997	0.814
15.03	0.742	-150.8	0.05997	0.811
13.32	0.832	-150.8	0.05997	0.816
20MHz BW		1.95Vpp		

**BILL OF MATERIALS**  
**13.5V to 16.5V Input**  
**-150V @ 50mA Output**  
**12/19/01**

1847-180

DESIGNATION	QTY	DESCRIPTION
C1	1	0.47uF ceramic capacitor (0805)
C2	1	56nF ceramic capacitor (0805)
C3	1	150pF ceramic capacitor (0805)
C4	1	0.1uF ceramic capacitor (0805)
C5	1	10uF 25V ceramic capacitor (1210) Taiyo Yuden TMK432BJ106MM
C6	1	1nF ceramic capacitor (0805)
C7	1	470pF ceramic capacitor (0805)
C8	1	0.1uF 200V PEN film capacitor (2420) Panasonic ECWU2104JC9
D1	1	1.5A 100V Schottky diode International Rectifier 10MQ100N
D2	1	1A 400V Ultrafast recovery diode Central Semi CMR1U-04
P1	1	0.3 Ohm -150V P-ch MOSFET (D-PAK) International Rectifier IRFR6215
R1	1	1M Ohm 5% resistor (0603)
R2	1	100k Ohm 5% resistor (0603)
R3	1	150k Ohm 5% resistor (0603)
R4	1	7.5k Ohm 5% resistor (0603)
R5	1	68k Ohm 5% resistor (0603)
R6	1	100 Ohm 5% resistor (0603)
R7	1	20m Ohm 1% 1W resistor (2512)
R8	1	402k Ohm 1% resistor (1206)
R9	1	3.32k Ohm 1% resistor (0603)
T1	1	1:2 Power transformer Lpri = 6.1uH Coiltronics VP4-0075
<b>U1</b>	<b>1</b>	<b>MAX1847EEE (16-QSOP)</b>