

BILL OF MATERIALS
9V to 16V Input
3.3V @ 1.8A, 2.5V @ 1.4A, 5V @ 300mA, 12V @ 50mA Output
5/11/01

1865T_3f

DESIGNATION	QTY	DESCRIPTION
C1	1	8.2nF ceramic capacitor (0805)
C2	1	1uF 10V X7R ceramic capacitor (0805) Taiyo Yuden LMK212BJ105MG
C3	1	0.1uF ceramic capacitor (0805)
C4	1	1000uF 25V aluminum electrolytic cap Sanyo 25MV1000AX
C5	1	4.7uF 25V ceramic capacitor (1210) Taiyo Yuden TMK325BJ475MN
C6	1	0.01uF ceramic capacitor (0805)
C7	1	3300pF ceramic capacitor (0805)
C8,C14	4	10uF 6V ceramic capacitor (1206) Taiyo Yuden JMK316BJ106ML
C9,C11	2	4700pF ceramic capacitor (0805)
C10,C12,C17,C19	4	4.7uF 16V ceramic capacitor (1206) Taiyo Yuden EMK316BJ475ML
C13	2	680uF 10V aluminum electrolytic cap Sanyo 10MV680AX
C15,C18	2	330uF 10V aluminum electrolytic cap Sanyo 10MV330AX
C16	2	3300uF 10V aluminum electrolytic cap
C20	1	47uF 25V aluminum electrolytic cap Sanyo 25MV47AX
C21	1	100pF 50V ceramic capacitor (radial)
D1	1	100mA Schottky diode (SOT-23) Central Semi CMPSH-3
D2	1	1A 30V Schottky diode Nihon EC10QS03L
D3	1	1A 60V Schottky diode Nihon EC10QS06
N1	1	Dual N-channel MOSFET (SO-8) Fairchild FDS6912A
Q2,Q5	2	200mA 40V PNP Transistor (TO-92) 2N3905
Q3	1	3A 60V PNP Transistor (TO-220) TIP32A
Q4	1	600mA 40V PNP Transistor (TO-92) 2N4402
R1	1	68k Ohm 5% resistor (0805)
R2	1	1k Ohm 5% resistor (0805)

R3	1	100 Ohm 5% resistor (0805)
R4,R5	2	10.0k Ohm 1% resistor (0805)
R6,R9	2	220 Ohm 5% resistor (0805)
R7	1	3.01k Ohm 1% resistor (0805)
R8	1	1.00k Ohm 1% resistor (0805)
R10	1	8.66k Ohm 1% resistor (0805)
R11	1	1.00k Ohm 1% resistor (0805)
R12	1	390 Ohm 5% 0.5W resistor (axial)
R13	1	100k Ohm 5% resistor (0805)
T1	1	1:1:2 transformer Lpri = 3.8uH Coiltronics VP4-0047
U1	1	MAX1865TEEP (20-QSOP)