



Vin	Iin	Vout	Iout	Efficiency
19.009	0.021	11.87	0	
18.00	2.76	11.81	4	0.951
19.02	2.63	11.81	4	0.944
20.03	2.50	11.81	4	0.943
20MHz BW		20mVpp		

**BILL OF MATERIALS**  
**18V to 20V Input**  
**12V @ 4A Output**  
**10/07/03**

8546\_12b

<b>DESIGNATION</b>	<b>QTY</b>	<b>DESCRIPTION</b>
C1	1	3.3nF ceramic capacitor (0805)
C2,C4	2	0.1uF 50V ceramic capacitor (0805)
C3	1	2.2uF 10V ceramic capacitor (0805) Taiyo Yuden LMK212BJ225MG
C5,C7	4	220uF 35V aluminum electrolytic capacitor Sanyo 35MV220AX
D1,D2	2	100mA 30V Schottky diode (SOT-23) Central Semi CMPSH-3
L1	2	15uH 7A Power inductor Coilcraft DO3340P-153
N1	1	23m Ohm Dual N-chan MOSFET (SO-8) Fairchild FDS6990A
R1	1	220k Ohm 5% resistor (0805)
R2	1	2.2 Ohm 5% resistor (0603)
R3	1	140k Ohm 1% resistor (0805)
R4	1	10.0k Ohm 1% resistor (0805)
<b>U1</b>	<b>1</b>	<b>MAX8546EUB (10-uMAX)</b>