

Bus Bar Calculations

R = resistivity * length / area

resistivity of Cu	1.67E-08	ohm-m	
thickness of 1 oz Cu	3.56E-05	m	(not used)
current per slot	7.40625	A/slot	
total slots	17	slots	

Copper Bar	in	m
width	0.3	0.00762
thickness	0.3	0.00762
length	13.6	0.34544
R		0.00010 ohm

R	dV	P	<<<<<	(slot)	current	length	width	length	width	thickness
ohm	V	Watt			Amp	inch	inch	m	m	m
0.000006	0.000736	0.092646		1	125.9	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000693	0.082067		2	118.5	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000649	0.072129		3	111.1	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000606	0.062832		4	103.7	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000563	0.054177		5	96.3	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000519	0.046163		6	88.9	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000476	0.038789		7	81.5	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000433	0.032057		8	74.1	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000390	0.025966		9	66.7	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000346	0.020517		10	59.3	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000303	0.015708		11	51.8	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000260	0.011541		12	44.4	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000216	0.008014		13	37.0	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000173	0.005129		14	29.6	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000130	0.002885		15	22.2	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000087	0.001282		16	14.8	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
0.000006	0.000043	0.000321		17	7.4	0.8	0.3	2.03E-02	7.62E-03	7.62E-03
Total	0.000099	0.006622	0.572223			13.60		0.35		