

## Material Composition for P278

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (grams)	Special Classification
Bushing	C92300	12.633%	Cu	7440-50-8	3368.85	
		0.001%	Si	7440-21-3	0.20	
		0.007%	S	68515-96-8	1.96	
		0.001%	Al	7429-90-5	0.20	
		0.044%	P	7723-14-0	11.76	
		1.161%	Sn	7440-31-5	309.68	
		0.044%	Pb	7439-92-1	11.76	RoHS exemption 6 (c)
		0.632%	Zn	7440-66-6	168.56	
		0.029%	Fe	7439-89-6	7.84	
		0.029%	Sb	7440-36-0	7.84	
		0.118%	Ni+Co	7440-02-0	31.36	
Conductor	C2680R Brass	2.144%	Cu	7440-50-8	571.74	
		0.919%	Zn	7440-66-6	245.10	
		0.001%	Fe	7439-89-6	0.16	
	Tin plating	0.011%	Sn	7440-31-5	3.00	
Element	Phenolic resin	14.267%	Silica	14808-60-7	3804.44	
		5.245%	Epoxy resin	29690-82-2	1398.69	
		1.049%	Brominated epoxy resin	40039-93-8	279.74	
		0.420%	Carbon black	1333-86-4	111.90	
	Carbon Plasm	0.001%	Methanol	67-56-1	0.38	
		0.007%	Carbon Black	1333-86-4	1.79	
		0.000%	Talc	14807-96-6	0.10	
		0.000%	Polymer with xylene o	29601-89-0	0.08	
		0.000%	Monobutyl Ether	112-34-5	0.08	
		0.000%	Silver	7440-22-4	0.13	
		0.002%	Phenolic resin	9039-25-2	0.40	
	Silver Plasm	0.005%	Silver	7440-22-4	1.46	
		0.000%	Glass powder	65997-17-3	0.01	
		0.001%	Graphite	7782-42-5	0.13	
		0.001%	Molybdeum disulfide	1317-33-5	0.13	
0.002%		Ethylene glycol	111-90-0	0.54		
fixed Plate	C2680R Brass	5.187%	Cu	7440-50-8	1383.08	
		2.223%	Zn	7440-66-6	592.92	
	Nickel plating	0.001%	Fe	7439-89-6	0.40	
Case	SPCC	0.011%	Ni	7440-02-0	3.00	
		0.031%	C	7440-44-0	8.24	
		0.031%	Mn	7439-96-5	8.24	
		0.006%	P	7723-14-0	1.65	
		0.006%	S	7704-34-9	1.65	
		0.046%	Si	7440-21-3	12.36	
		0.006%	Al	7429-90-5	1.65	
		15.322%	Fe	7439-89-6	4085.72	
		Tin Plating	0.011%	Sn	7440-31-5	3.00
	fixed Board	Prepreg(FR4 Fiber glass board S1000)	0.827%	GLASS, OXIDE, CHEMICALS	65997-17-3	220.66
0.752%			BISPHENOL A, EPICHLOROHYDRIN, TETRABROMOBISPHENO L A POLYMER	26265-08-7	200.60	
0.301%			Cu	7440-50-8	80.24	
C Cover	C2680R Brass	0.378%	Cu	7440-50-8	100.91	
		0.162%	Zn	7440-66-6	43.26	
		0.000%	Fe	7439-89-6	0.03	
	Nickel plating	0.008%	Ni	7440-02-0	2.00	
Nut	Fe+Nickel plating	4.427%	Fe	7439-89-6	1180.48	
		0.036%	Ni	7440-02-0	9.52	
Stop plate	SUS304	0.002%	C	7440-44-0	0.62	
		0.002%	Si	7440-21-3	0.46	
		0.039%	Mn	7439-96-5	10.32	
		0.001%	P	7723-14-0	0.26	
		0.000%	S	7704-34-9	0.01	
		0.620%	Cr	7440-47-3	165.22	
		0.281%	Ni	7440-02-0	74.92	
		2.438%	Fe	7439-89-6	650.16	
		0.700%	Cu	7440-50-8	186.54	
		0.061%	Sn	7440-31-5	16.27	
Slider	C5210 Copper	0.002%	Zn	7440-66-6	0.41	
		0.000%	Fe	7439-89-6	0.08	
		0.000%	P	7723-14-0	0.10	
		0.016%	C	7440-44-0	4.23	
		0.553%	Mn	7439-96-5	147.39	
		0.082%	Si	7440-21-3	21.86	
		0.008%	P	7723-14-0	2.12	
Shaft	SUS303	0.066%	S	7704-34-9	17.63	
		4.646%	Cr	7440-47-3	1239.04	
		2.155%	Ni	7440-02-0	574.74	
		0.026%	Mo	7439-98-7	7.05	
		0.574%	Cu	7440-50-8	153.03	
		18.319%	Fe	7439-89-6	4884.92	
		0.001%	C	7440-44-0	0.14	
		0.004%	Si	7440-21-3	1.09	
		0.009%	Mn	7439-96-5	2.29	
		0.000%	P	7723-14-0	0.07	
Washer	SUS301	0.000%	S	7704-34-9	0.02	
		0.141%	Cr	7440-47-3	37.60	
		0.062%	Ni	7440-02-0	16.58	
		0.633%	Fe	7439-89-6	168.72	
		0.007%	Polyisobutylene	9003-27-4	1.80	
		0.004%	PAO	68037-01-4	1.05	
		0.001%	Fumed Silica	68611-44-9	0.15	
<b>Total mass</b>					<b>26666.460 grams</b>	