

## Material Composition for P272 Potentiometer

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (mg)	Special Classification
Stator	C2680R	5.902%	Cu	7440-50-8	935.95	
		2.777%	Zn	7440-66-6	440.45	
	Nickel Plating	0.019%	Ni	7440-02-0	3.00	
Fixed-board	Glass Fiber board	0.837%	Fiber Glass Wool	65997-17-3	132.66	
		0.760%	EPOXY RESIN	26265-08-7	120.60	
		0.304%	Cu	7440-50-8	48.24	
Stop Plate	SUS304	1.817%	Fe	7439-89-6	288.23	
		0.002%	C	7440-44-0	0.28	
		0.011%	Si	7440-21-3	1.69	
		0.214%	Ni	7440-02-0	33.93	
		0.031%	Mn	7439-96-5	4.94	
		0.001%	P	7723-14-0	0.12	
		0.000%	S	7704-34-9	0.00	
		0.459%	Cr	7440-47-3	72.80	
		C Button	C2680R	0.537%	Cu	7440-50-8
0.253%	Zn			7440-66-6	40.06	
Nickel Plating	0.006%		Ni	7440-02-0	1.00	
Case	SUS304	13.453%	Fe	7439-89-6	2,133.43	
		0.013%	C	7440-44-0	2.08	
		0.079%	Si	7440-21-3	12.50	
		1.584%	Ni	7440-02-0	251.13	
		0.231%	Mn	7439-96-5	36.60	
		0.006%	P	7723-14-0	0.89	
		0.000%	S	7704-34-9	0.00	
		3.398%	Cr	7440-47-3	538.86	
		Base	Phenolic Laminate	7.616%	Pulp cellulose	65996-61-4
9.308%	Phenol formaldehyde resin			9003-35-4	1,476.20	
C2680R	0.772%		Cu	7440-50-8	122.40	
	0.363%		Zn	7440-66-6	57.60	
Carbon Plasm	0.109%		Methanol	67-56-1	17.25	
	0.508%		Carbom Black	1333-86-4	80.50	
	0.029%		Talc	14807-96-6	4.60	
	0.022%		Polymer with xylene 8 phend	29601-89-0	3.45	
	0.022%		Monobutyl Ether	112-34-5	3.45	
Silver Plasm	0.036%		Silver	7440-22-4	5.75	
	0.145%		Phenolic resin	9039-25-2	23.01	
	0.372%		Silver	7440-22-4	59.00	
	0.004%		Glass powder	65997-17-3	0.59	
	0.037%		Graphite	7782-42-5	5.90	
	0.037%		Molybdeum disulfide	1317-33-5	5.90	
	0.149%	Diethylene glycol monveihyl ether	111-90-0	23.60		
fixed-Set	C3604 easy-cut Cop	3.472%	Cu	7440-50-8	550.67	
		2.075%	Zn	7440-66-6	329.02	
		0.103%	Pb	7439-92-1	16.37	RoHS exemption 6 ( c )
		0.020%	Fe	7439-89-6	3.15	
		0.020%	Fe	7439-89-6	3.15	
Conductor	C2680R	2.221%	Cu	7440-50-8	352.24	
		1.045%	Zn	7440-66-6	165.76	
	Sn Plating	0.013%	Sn	7440-31-5	2.00	
Slider	C7701R	0.675%	Cu	7440-50-8	107.07	
		0.322%	Zn	7440-66-6	51.06	
		0.221%	Nickel	7440-02-0	35.01	
		0.006%	Mn	7439-96-5	0.97	
		0.002%	Fe	7439-89-6	0.39	
		0.002%	Fe	7439-89-6	0.39	
Washer	SUS304	0.563%	Fe	7439-89-6	89.27	
		0.001%	C	7440-44-0	0.09	
		0.003%	Si	7440-21-3	0.52	
		0.066%	Ni	7440-02-0	10.51	
		0.010%	Mn	7439-96-5	1.53	
		0.000%	P	7723-14-0	0.04	
		0.000%	S	7704-34-9	0.00	
		0.142%	Cr	7440-47-3	22.55	
		0.013%	Ni	7440-02-0	2.00	
		fixed-block	C3604 easy-cut Cop	4.410%	Cu	7440-50-8
2.635%	Zn			7440-66-6	417.86	
0.131%	Pb			7439-92-1	20.78	RoHS exemption 6 ( c )
0.025%	Fe			7439-89-6	4.00	
0.019%	Ni			7440-02-0	3.00	
O Washer	Silicon dioxide	0.006%	Vi (ch3)2si0J n	68083-18-1	0.99	
		0.004%	Vi(ch3)si0J mSi(ch3)2vsi02	secret	0.63	
		0.001%	H0 (ch3)2si0J Nsi(ch3)2(oh)	70131-67-8	0.18	
Nut	SWRCH	1.659%	Fe	7439-89-6	263.09	
		0.011%	C	7440-44-0	1.79	
		0.102%	P	7723-14-0	16.11	
		0.257%	Mn	7439-96-5	40.81	
		0.228%	S	7704-34-9	36.19	
		0.013%	Ni	7440-02-0	2.00	
		0.013%	C	7440-44-0	2.05	
Shaft	SUS303	0.451%	Mn	7439-96-5	71.48	
		0.067%	Si	7440-21-3	10.60	
		0.006%	P	7723-14-0	1.03	
		0.468%	Cu	7440-50-8	74.21	
		14.938%	Fe	7439-89-6	2,369.03	
		0.054%	S	7704-34-9	8.55	
		3.789%	Cr	7440-47-3	600.89	
		1.758%	Ni	7440-02-0	278.73	
		0.022%	Mo	7439-98-7	3.42	
		Shaft Set	C3604 easy-cut Cop	3.472%	Cu	7440-50-8
2.074%	Zn			7440-66-6	328.94	
0.103%	Pb			7439-92-1	16.36	RoHS exemption 6 ( c )
0.020%	Fe			7439-89-6	3.15	
0.032%	Ni			7440-02-0	5.00	
Adhesive	Adhesive	0.017%	Hydroxyl terminated siloxane	63148-62-9	2.74	
		0.004%	silica	7361-86-9	0.57	
		0.003%	alumina	1344-28-1	0.46	
		0.000%	carbon black	1333-86-4	0.04	
Grease	Base oil+Addition	0.009%	Polyisobutylene	9003-27-4	1.50	
		0.006%	PAO	68037-01-4	0.88	
		0.001%	Fumed Silica	68611-44-9	0.13	
<b>Total mass</b>					<b>15,858.9 mg</b>	