

## Material Composition for P161 Potentiometer

Part No.	Description	Sub-component	Material	Chemical Name	CAS #	Total weight of composition part name(mg)		weight of composition part name (mg)	(% of Sub Weight)	Special Classification	
P161	Potentiometer	Terminal	SPCC	C	7440-44-0	162.80	162.50	0.33	0.20%		
				Mn	7439-96-5			0.33	0.20%		
				P	7723-14-0			0.07	0.04%		
				S	7704-34-9			0.07	0.04%		
				Si	7440-21-3			0.49	0.30%		
				Al	7429-90-5			0.07	0.04%		
				Fe	7439-89-6			161.17	99.18%		
		Tin And Pure atomize	Sn	7440-31-5	0.30	0.30	100.00%				
		Slider	C7701	Cu	7440-50-8	72.60	72.60	39.97	55.05%		
				Zn	7440-66-6			19.06	26.25%		
				Ni	7440-02-0			13.07	18.00%		
				Mn	7439-96-5			0.36	0.50%		
				Fe	7439-89-6			0.15	0.20%		
		Shaft	ALLOY Zinc Alloy	Al	7429-90-5	1338.10	1338.10	53.52	4.00%		
				Cu	7440-50-8			6.69	0.50%		
				Mg	7439-95-4			0.67	0.05%		
				Fe	7439-89-6			0.13	0.01%		
				Sn	7440-31-5			0.13	0.01%		
				Zn	7440-66-6			1276.95	95.43%		
		Element	Phenolic Laminate	B.K.P	65996-61-4	368.40	347.40	156.33	45.00%		
				Phenolic Resin	9003-35-4			191.07	55.00%		
				Methanol	67-56-1			2.10	15.00%		
			Carbon Plasm	Carbom Black	1333-86-4			14.00	9.80		70.00%
				Talc	14807-96-6				0.56		4.00%
				Polymer with xylene 8 phend	29601-89-0				0.42		3.00%
				Moncbutyl Ether	112-34-5				0.42		3.00%
				Silver	7440-22-4				0.70		5.00%
			Silver Plasm	Phenolic resin	9039-25-2			6.00	1.17		19.50%
				Silver	7440-22-4				3.00		50.00%
				Glass powder	65997-17-3				0.03		0.50%
				Graphite	7782-42-5				0.30		5.00%
				Molybdeum disulfide	1317-33-5				0.30		5.00%
				Diethylene glycol monveihyl ether	111-90-0				1.20		20.00%
			White Oil	Epoxy Resin	25085-99-8			1.00	0.50		50.00%
				Barium Sulfate Talc	7727-43-7				0.15		15.00%
				Titanium sulfate	13463-67-7				0.30		30.00%
				Diethylene Glycol Monoethyl Ether Acetate	112-15-2				0.05		5.00%
			STOP PLATE	POM	ACETAL POLYMER			002-81-7	192.00		192.00
		STABILIZER			70624-18-9	3.84	2.00%				
		Terminal	SPCC	C	7440-44-0	162.80	162.50	0.33	0.20%		
				Mn	7439-96-5			0.33	0.20%		
				P	7723-14-0			0.07	0.04%		
				S	7704-34-9			0.07	0.04%		
				Si	7440-21-3			0.49	0.30%		
				Al	7429-90-5			0.07	0.04%		
				Fe	7439-89-6			161.17	99.18%		
		Tin And Pure atomize	Sn	7440-31-5	0.30	0.30	100.00%				
Slider	C7701	Cu	7440-50-8	72.60	72.60	39.97	55.05%				
		Zn	7440-66-6			19.06	26.25%				
		Ni	7440-02-0			13.07	18.00%				
		Mn	7439-96-5			0.36	0.50%				
		Fe	7439-89-6			0.15	0.20%				
Case	SPCC	C	7440-44-0	1376.00	1374.30	2.75	0.20%				
		Mn	7439-96-5			2.75	0.20%				
		P	7723-14-0			0.55	0.04%				
		S	7704-34-9			0.55	0.04%				
		Si	7440-21-3			4.12	0.30%				
		Al	7429-90-5			0.55	0.04%				
		Fe	7439-89-6			1363.03	99.18%				
	Luster Tin Plating	Sn	7440-31-5	1.70	1.70	100.00%					
Shaft Set	C3604 easy-cut Copper	Cu	7440-50-8	1832.00	1832.00	1121.92	61.24%				
		Zn	7440-66-6			670.33	36.59%				
		Pb	7439-92-1			33.34	1.82%				
		Fe	7439-89-6			6.41	0.35%				
C	7440-44-0	6.87	0.20%								

RoHS exempt,Pb in easy-cut Copper

Switch Case	SPCC	Mn	7439-96-5	3440.00	3437.00	6.87	0.20%			
		P	7723-14-0			1.37	0.04%			
		S	7704-34-9			1.37	0.04%			
		Si	7440-21-3			10.31	0.30%			
		Al	7429-90-5			1.37	0.04%			
		Fe	7439-89-6			3408.82	99.18%			
		Nickel Plating	Ni			7440-02-0	3.00	3.00	100.00%	
Switch Element	Phenolic Laminate	B.K.P	65996-61-4	345.00	345.00	155.25	45.00%			
		Phenolic Resin	9003-35-4			189.75	55.00%			
Switch Block	POM	ACETAL POLYMER	002-81-7	257.50	257.50	252.35	98.00%			
		STABILIZER	70624-18-9			5.15	2.00%			
Contact Plate	C5210	Copper	7440-50-8	212.50	211.50	191.83	90.70%			
		Tin(Sn)	7440-31-5			19.04	9.00%			
		P	7723-14-0			0.63	0.30%			
	Silver plating	Ag	7440-22-4			1.00	1.00	100.00%		
Contact Terminal	C2680	Cu	7440-50-8	180.00	180.00	122.40	68.00%			
		Zn	7440-66-6			57.60	32.00%			
	Ag Plating	Ag	7440-22-4			1.00	1.00	100.00%		
NUT	Fe+Nickel	Fe	7439-89-6	350.00	350.00	343.00	98.00%			
		Ni	7440-02-0			7.00	2.00%			
Washer	SPCC	C	7440-44-0	122.20	121.40	0.24	0.20%			
		Mn	7439-96-5			0.24	0.20%			
		P	7723-14-0			0.05	0.04%			
		S	7704-34-9			0.05	0.04%			
		Si	7440-21-3			0.36	0.30%			
		Al	7429-90-5			0.05	0.04%			
		Fe	7439-89-6			120.40	99.18%			
		Luster Tin Plating	Sn			7440-31-5	0.80	0.80	100.00%	
	Switch Plate	C2680	Cu			7440-50-8	112.20	111.20	75.62	68.00%
			Zn			7440-66-6			35.58	32.00%
Ag Plating		Ag	7440-22-4	1.00	1.00	100.00%				
Spring	SWP-B	Si	7440-21-3	22.00	22.00	0.14	0.64%			
		Mn	7439-96-5			0.27	1.24%			
		P	7723-14-0			1.83	8.31%			
		S	7704-34-9			0.01	0.03%			
		Fe	7439-89-6			19.75	89.78%			
Spring Plate	C2680	Cu	7440-50-8	173.30	171.30	116.48	68.00%			
		Zn	7440-66-6			54.82	32.00%			
	Ag Plating	Ag	7440-22-4			2.00	2.00	100.00%		
Base board	Phenolic Laminate	B.K.P	65996-61-4	345.00	345.00	155.25	45.00%			
		Phenolic Resin	9003-35-4			189.75	55.00%			
Shaft Oil	Base oil+Addition	Polyisobutylene	9003-27-4	2.00	2.00	1.20	60.00%			
		PAO	68037-01-4			0.70	35.00%			
		Fumed Sitica	68611-44-9			0.10	5.00%			

Total	11140.000	
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