

## Material Composition for SX-4431A

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (grams)	Special Classification
Housing	Glass Reinforced PPA	25.07%	PPA	25776-72-1	1.52E+01	
			Glass Fibber	65997-17-3	7.49E+00	
Rear Lid	PBT	9.39%	PBT	26062-94-2	8.33E+00	
			Misc. Not to declare	N/A	1.70E-01	
Torque Array	PCB material	0.65%	Glass Fiber	65997-17-3	3.95E-01	
			Copper	7440-50-8	2.00E-02	
			Nickel	7440-02-0	5.55E-03	
			Gold	7440-57-5	2.31E-03	
			Epoxy resing	N/A	1.69E-01	
	CP Paste	0.22%	Secret Formula	N/A	2.00E-01	
Position Element	PCB material	6.75%	Glass Fiber	65997-17-3	4.16E+00	
			Copper	7440-50-8	1.15E-01	
			Nickel	7440-02-0	3.21E-02	
			Gold	7440-57-5	1.39E-02	
			Epoxy resing	N/A	1.78E+00	
	CP Paste	0.22%	Secret Formula	N/A	2.00E-01	
	Slip Ring Paste	0.22%	Secret Formula	N/A	2.00E-01	
Plasstic rotor	Glass Reinforced Nylon	14.58%	Glass Fiber	65997-17-3	1.32E+00	
			Nylon 6	25038-54-4	6.60E+00	
			Acrylonitrile, polymer with styrene	9003-54-7	2.77E+00	
			Poly-paraphenylene terephthalamic	26125-61-1	6.60E-01	
			Polytetrafluoroethylene	9002-84-0	1.32E+00	
			Misc. Not to declare	N/A	5.28E-01	
LH3 Rotor Plastic	Glass Reinforced Nylon	14.07%	Glass Fiber	65997-17-3	1.27E+00	
			Nylon 6	25038-54-4	6.37E+00	
			Acrylonitrile, polymer with styrene	9003-54-7	2.68E+00	
			Poly-paraphenylene terephthalamic	26125-61-1	6.37E-01	
			Polytetrafluoroethylene	9002-84-0	1.27E+00	
			Misc. Not to declare	N/A	5.10E-01	
Star Rotor	Glass Reinforced Nylon	0.31%	Glass Fiber	65997-17-3	1.47E-02	
			Nylon 6	25038-54-4	1.47E-01	
			Acrylonitrile, polymer with styrene	9003-54-7	6.19E-02	
			Poly-paraphenylene terephthalamic	26125-61-1	1.47E-02	
			Polytetrafluoroethylene	9002-84-0	2.95E-02	
			Misc. Not to declare	N/A	1.18E-02	
Contact spring	Palladium Alloy	0.00%	Palladium	7440-05-3	1.90E-04	
			Nickel	7440-02-0	3.81E-04	
			Tin	7440-31-5	2.03E-04	
			Silver	7440-22-4	1.64E-04	
			Copper	7440-50-8	2.57E-04	
Star Drive	Glass Reinforced Nylon	1.21%	Glass fiber	65997-17-3	3.74E-01	
			PPA	N/A	7.15E-01	
			Misc. not to declare	N/A	1.10E-02	
Coupling	Stainless Steel	4.54%	Iron	7439-89-6	2.88E+00	
			Chromium	7440-47-3	7.41E-01	
			Nickel	7440-02-0	4.12E-01	
			Misc. Not to declare	N/A	8.23E-02	
Hog ring	Stainless Steel	1.32%	Iron	7439-89-6	8.36E-01	
			Chromium	7440-47-3	2.15E-01	
			Nickel	7440-02-0	1.19E-01	
			Misc. Not to declare	N/A	2.39E-02	
Grip Ring	Stainless Steel	1.32%	Iron	7439-89-6	8.36E-01	
			Chromium	7440-47-3	2.15E-01	
			Nickel	7440-02-0	1.43E-01	
Contact	Palladium Alloy	0.14%	Palladium	7440-05-3	8.27E-03	
			Nickel	7440-02-0	1.66E-02	
			Tin	7440-31-5	8.86E-03	
			Silver	7440-22-4	7.14E-03	
			Copper	7440-50-8	8.87E-02	
Wire harness	Wire	8.45%	Copper	7440-40-8	3.47E+00	
			Tin	7440-31-5	3.52E-01	
			Polyvinylchloride	9002-86-2	3.83E+00	
	Terminal pin	1.95%	Copper	7440-40-8	1.73E+00	
			Nickel	7440-02-0	1.76E-02	
			Tin	7723-31-5	8.82E-04	
	Machined terminal	1.53%	Phosphorus	7723-14-0	1.59E-02	
			Copper	7440-50-8	7.44E-01	
			Iron	7439-89-6	8.09E-04	
	Connector	2.84%	Lead	7439-92-1	1.62E-01	RoHS exemption 6( c )
			Tin	7440-31-5	4.77E-01	
			PBT	106565-43-9	2.52E+00	
Misc. not to declare			N/A	5.15E-02		
Tubinf iraxx	Polyolefin resing	1.03%	Hydrogen	1333-74-0	9.01E-01	
			Carbon	7440-44-0	2.79E-02	
Teflon Wahser	Teflon	0.96%	PTFE	9002-84-0	8.65E-01	
Thermical potting componen	Nylon	3.20%	Polyamide	32131-17-2	2.61E+00	
			Misc. Not to declare	N/A	2.90E-01	
Label	Polyester label	0.04%	Polyethylene tereohthalate	25038-59-9	4.00E-02	
<b>Total mass</b>					<b>90.56</b>	<b>grams</b>