

MATERIAL DECLARATION SHEET



Product Part Number	1530-1X-W			
Product Line	PoE Ethernet Surge Protector			
MSL	1			
RoHS Compliant	No	Compliance Date	N/A	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\	CASRN	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
				Substances	if applicable			
1	Acrylic Conformal Coating	HumiSeal® 1B73	0.26	Acrylic resin	Trade secret	100	0.1468	0.1468
2	Screw, wood, PH, No 8# 2 Phillips, 1.5" long	Zinc plated steel	2.6	Iron	7439-89-6	98.87	1.4518	1.4684
				Zinc	7440-66-6	1.13	0.0166	
3	Screw, PH, 8-32 UNC, 1.0" long	Stainless steel	2.73	Iron	7439-89-6	70	1.07926	1.5418
				Chromium	7440-47-3	18	0.277524	
				Nickel	7440-02-0	8.4	0.1295112	
				Cobalt	7440-48-4	0.4	0.0061672	
				Copper	7440-50-8	3.2	0.0493376	
4	Lower clamp	Tin/lead plated rolled steel	11.95	Iron	7439-89-6	98.6	6.654514	6.7490
				Tin	7440-31-5	1.2	0.080988	
				Lead	7439-92-1	0.2	0.013498	

5	Upper clamp	Tin/lead plated rolled steel	7.38	Iron	7439-89-6	98	4.08464	4.168
				Tin	7440-31-5	1.7	0.070856	
				Lead	7439-92-1	0.3	0.012504	
6	Spacer, brass	Brass	2.7	Copper	7440-50-8	65	0.991185	1.5249
				Zinc	7440-66-6	34	0.518466	
				Lead	7439-92-1	1	0.015249	
7	Spacer, nylon	Nylon 6-6	8.11	Poly[imino(1,6-dioxohexamethylene) imnohexamethylene]	32131-17-2	100	4.5803	4.5803
8	Plug, wire hole	LEXAN™ 940	0.070	Polycarbonate	25037-45-0	100	0.0395	0.0395
9	Screw for plastic, PH, Phillips, 2-28 - 3/8 Long	Zinc plated steel	1.5	Iron	7439-89-6	99.3	0.8412696	0.8472
				Zinc	7440-66-6	0.7	0.0059304	
10	PCB	FR4	17	Glass fabric	65997-17-3	43	4.128473	9.6011
				Epoxy resin	26265-08-7	40	3.84044	
				Copper	7440-50-8	17	1.632187	
11	Spade Lug	Insulation	1.2	Polyvinyl chloride	9002-86-2	20.8	0.1409616	0.6777
		Copper		Copper	7440-50-8	75	0.508275	
		Tin plating		Tin	7440-31-5	4.2	0.0284634	
12	Wire, Green 14 AWG	Copper wire	27.72	Copper	7440-50-8	81.9	12.8218545	15.6555
		Insulation		Polyvinyl chloride	9002-86-2	18.1	2.8336455	
13	MOV	Zinc oxide disc	1.17	Zinc oxide	13114-13-2	86	0.568288	0.6608
				Silver	7440-22-4	1.8	0.0118944	
				Metal oxides (trade secret)	N/A	12.2	0.0806176	
		Epoxy resin	0.72	Epoxy resin (halogens between 900 and 1500ppm)	25036-25-3	50	0.2033	0.4066
				Silica fused	60676-86-0	50	0.2033	
		Tin copper clad steel wire	1.14	Iron	7439-89-6	55	0.35409	0.6438
				Copper	7440-50-8	40	0.25752	
				Tin	7440-31-5	5	0.03219	
		Soldering bar	0.135	Tin	7440-31-5	96.5	0.073533	0.0762
				Silver	7440-22-4	3	0.002286	
Copper	7440-50-8			0.5	0.000381			

14	TBU® High-Speed Protector	Silicon	0.033	Silicon	7440-21-3	100	0.0186	0.0186
		Copper alloy lead frame	0.29	Copper	7440-50-8	95.65	0.1566747	0.1638
				Iron	7439-89-6	2.18	0.00357084	
				Phosphorus	7723-14-0	0.03	0.00004914	
				Zinc	7440-66-6	0.13	0.00021294	
				Silver	7440-22-4	2.01	0.00329238	
		Silver epoxy	0.0109	Epoxy resin	Trade secret	2.99	0.00018538	0.0062
				Functionalized ester	Trade secret	7.01	0.00043462	
				Polymeric compound	Trade secret	2.99	0.00018538	
				Silver	7440-22-4	87.01	0.00539462	
		Gold bond wire	0.00107	Gold	7440-57-5	100	0.0006	0.0006
		Epoxy resin	0.25	Silica fused	60676-86-0	90.49	0.12777188	0.1412
				Epoxy resin	Trade secret	4.7	0.0066364	
Phenol resin	Trade secret			4.7	0.0066364			
Carbon black	1333-86-4			0.11	0.00015532			
Tin plating	0.017	Tin	7440-31-5	100	0.0096	0.0096		
15	RJ45 Shielded	Thermoplastic UL94 V-0	3.51	Polybutylene terephthalate	24968-12-5	5	0.09912	1.9824
				Antimony trioxide	1309-64-4	13	0.257712	
				Phenoxy-Terminated Carbonate Oligomer of Tetrabromobisphenol A	71342-77-3	52	1.030848	
				Fibrous glass	65997-17-3	30	0.59472	
		Gold plated copper alloy contact	0.58	Copper	7440-50-8	91.62	0.30014712	0.3276
				Tin	7440-31-5	8.02	0.02627352	
				Phosphorus	7723-14-0	0.10	0.0003276	
				Iron	7439-89-6	0.10	0.0003276	
				Zinc	7440-66-6	0.02	0.00006552	
				Nickel	7440-02-0	0.07	0.00022932	
Gold	7440-57-5			0.07	0.00022932			

		Nickel plated brass shield	2.07	Copper	7440-50-8	65.6992	0.76809	1.1691
				Zinc	7440-66-6	33.02	0.38604	
				Tin	7440-31-5	0.69	0.00807	
				Iron	7439-89-6	0.0008	0.00001	
				Nickel	7440-02-0	0.59	0.00689	
16	GDT	Tin plated Alloy 42 electrode	9.83	Iron	7439-89-6	56.4	3.1312	5.5517
				Nickel	7440-02-0	40.8	2.2651	
				Tin	7440-31-5	2.8	0.1554	
		Ceramic	5.85	Aluminum oxide	1344-28-1	95	3.138705	3.3039
				Silicon dioxide	7631-86-9	5	0.165195	
		Tin plated Copper electrode	3.31	Copper	7440-50-8	99.2	1.8544448	1.8694
				Nickel	7440-02-0	0.2	0.0037388	
				Tin	7440-31-5	0.6	0.0112164	
		Cusil™	0.35	Silver	7440-22-4	72	0.142344	0.1977
				Copper	7440-50-8	28	0.055356	
		Gas	0.0049	Argon	7440-37-1	100	0.0028	0.0028
		Green Ink	0.007	Ink (Proprietary mixture)	Trade secret	100	0.0040	0.0040
		Tin plated Copper wire	1.05	Copper	7440-50-8	97	0.57521	0.5930
				Tin	7440-31-5	3	0.01779	
		Tin plated Alloy 25 failsafe clip	1.69	Copper	7440-50-8	95.3	0.9096385	0.9545
				Beryllium	7440-41-7	1.9	0.0181355	
				Tin	7440-31-5	2.8	0.026726	
		Tin plated Alloy C260 failsafe support	0.23	Copper	7440-50-8	68.7	0.08931	0.1300
				Zinc	7440-66-6	29.5	0.03835	
				Tin	7440-31-5	1.8	0.00234	
CASTIN alloy solder for failsafe	0.26	Tin	7440-31-5	96.2	0.1412216	0.1468		
		Silver	7440-22-4	2.5	0.00367			
		Copper	7440-50-8	0.8	0.0011744			
		Antimony	7440-36-0	0.5	0.000734			

17	Fuse	Ceramic	1.04	Aluminum oxide	1344-28-1	96	0.563904	0.5874
				Silicon dioxide	7631-86-9	2	0.011748	
				Calcium oxide	1305-78-8	2	0.011748	
		Solder	0.34	Tin	7440-31-5	90	0.1728	0.1920
				Antimony	7440-36-0	8	0.01536	
				Copper	7440-50-8	2	0.00384	
		Fuse element	0.070	Tin	7440-31-5	69.7	0.0275315	0.0395
				Copper	7440-50-8	12.3	0.0048585	
				Fiber	N/A	18	0.00711	
		Fuse cap	0.8	Copper	7440-50-8	65	0.29367	0.4518
Zinc	7440-66-6			35	0.15913			
Nickel plating on inner plate	0.022	Nickel	7440-02-0	100	0.0124	0.0124		
Tin plating on outer plate	0.022	Tin	7440-31-5	100	0.0124	0.0124		
18	TVS Diode Array	Epoxy resin	0.021	Silica fused	60676-86-0	87.7	0.010524	0.0120
				Epoxy resin	Trade secret	5	0.0006	
				Epoxy CN	29690-82-2	2	0.00024	
				Phenol resin	Trade secret	5	0.0006	
				Carbon black	1333-86-4	0.3	0.000036	
		Copper alloy leadframe	0.016	Copper	7440-50-8	94.56	0.0085104	0.0090
				Iron	7439-89-6	2.23	0.0002007	
				Zinc	7440-66-6	0.01	0.0000009	
				Phosphorus	7723-14-0	0.03	0.0000027	
				Silver	7440-22-4	3.17	0.0002853	
		Silicon chip	0.0016	Silicon	7440-21-3	93.74	0.00084366	0.0009
				Aluminum	7429-90-5	3.05	0.00002745	
				Nickel	7440-02-0	3.08	0.00002772	
Gold	7440-57-5			0.13	0.00000117			

		Silver epoxy	0.00032	Epoxy resin	Trade secret	2.99	0.00000598	0.0002
				Functionalized ester	Trade secret	7.01	0.00001402	
				Polymeric compound	Trade secret	2.99	0.00000598	
				Silver	7440-22-4	87.01	0.00017402	
		Gold bond wire	0.00018	Gold	7440-57-5	100	0.0001	0.0001
		Tin plating	0.00033	Tin	7440-31-5	100	0.0002	0.0002
19	Housing	LEXAN™ 940	59	Polycarbonate	25037-45-0	100	33.3216	33.3216
		TOTAL	177.0623					

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Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.