

MATERIAL DECLARATION SHEET

BOURNS®

Material Number	SM43P01EL			
Product Line	LAN Transformer Module			
Compliance Date	2025/11/07			
RoHS Compliant	Yes	MSL	Level 1	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	PCB	CCL	0.22562785	Fiber Glass	65997-17-3	37.500%	6.3616875	16.96
				INORGANIC FILLER	-	6.250%	1.0602813	
				6H-Dibenzo[c,e][1,2]oxaphosphinine 6-oxide	35948-25-5	6.250%	1.0602813	
				Copper	7440-50-8	50.000%	8.4822500	
		Imageable solder mask	0.0123025	Epoxy acrylate resin	61788-97-4	53.330%	0.4933025	0.93
				Mitsubishi Carbon Black	13463-67-7	20.000%	0.1850000	
				Talc	14807-96-6	26.670%	0.2466975	
		INK(ZSR-150)W	0.0073815	2,2' -[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-oxiranhomopol	25085-99-8	52.600%	0.2919300	0.56
				Barium sulfate	7727-43-7	15.800%	0.0876900	
				titanium dioxide	13463-67-7	31.600%	0.1753800	
		PCB Immersion Gold	0.00073815	Nickel	7440-02-0	94.500%	0.0524475	0.06
				Gold	7440-57-5	5.500%	0.0030525	

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2	Common Mode Choke Coil x 4	Ferrite Ni-Zn Series	0.0368676	Ferric oxide	1309-37-1	62.000%	1.7186400	2.77
				Nickel oxide	1313-99-1	11.000%	0.3049200	
				Zinc oxide	1314-13-2	20.000%	0.5544000	
				Copper oxide	1317-38-0	7.000%	0.1940400	
		Copper Wire	0.0057456	Copper	7440-50-8	100.000%	0.4320000	0.54
		Copper Colored Coating On The Magnet Wire_SFHW	0.0014364	Polyurethane Resin	26680-22-8	100.000%	0.1080000	
		Silver paste_DP4303W	0.0014364	Silver	7440-22-4	73.700%	0.0795960	0.11
				Silicon dioxide	60676-86-0	15.800%	0.0170640	
				Resins	9004-57-3	10.500%	0.0113400	
		S Nickel Pellets	0.0004788	Nickel	7440-02-0	100.000%	0.0360000	0.04
		Lead Free Solder	0.0004788	Tin	7440-31-5	100.000%	0.0360000	0.04
		EPOXY_ME-5890LC	0.0014364	Epoxy resin	61788-97-4	50.000%	0.0540000	0.11
				Carbon black	1333-86-4	46.000%	0.0496800	
				Acrylated Aliphatic Urethane	68987-79-1	4.000%	0.0043200	
3	SMD Pulse Transformer x 4	Ferrite Ni-Zn Series	0.48673611	Ferric oxide	1309-37-1	62.000%	22.6899540	36.60
				Nickel oxide	1313-99-1	11.000%	4.0256370	
				Zinc oxide	1314-13-2	20.000%	7.3193400	
				Copper oxide	1317-38-0	7.000%	2.5617690	
		Copper Wire	0.091146762	Copper	7440-50-8	100.000%	6.8531400	6.99
		Copper Colored Coating On The Magnet Wire_SFHW	0.001860138	Polyurethane Resin	26680-22-8	100.000%	0.1398600	
		Silver paste_DP4303W	0.01550115	Silver	7440-22-4	73.700%	0.8589735	1.17
				Silicon dioxide	60676-86-0	15.800%	0.1841490	
				Resins	9004-57-3	10.500%	0.1223775	

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		S Nickel Pellets	0.00310023	Nickel	7440-02-0	100.000%	0.2331000	0.23
		Lead Free Solder	0.00310023	Tin	7440-31-5	100.000%	0.2331000	0.23
		EPOXY_ME-5890LC	0.01860138	Epoxy resin	61788-97-4	50.000%	0.6993000	1.40
				Carbon black	1333-86-4	46.000%	0.6433560	
Acrylated Aliphatic Urethane	68987-79-1			4.000%	0.0559440			
4	Iron Shell	STEEL STRIP	0.3248658	Carbon	7740-44-0	0.530%	0.1294578	27.14
				Manganese	7439-96-5	0.920%	0.2247192	
				Phosphorus	7723-14-0	0.320%	0.0781632	
				Sulfur	7704-34-9	0.355%	0.0867123	
				Nickel	7740-02-0	0.255%	0.0622863	
				Chromium	7740-47-3	0.030%	0.0073278	
				Iron	7439-89-6	97.590%	23.8373334	
		Copper	0.0180481	Copper	7440-50-8	100.000%	1.3570000	
		Nickel	0.0180481	Nickel	7440-02-0	100.000%	1.3570000	
5	Solder	Lead Free Solder	0.055062	Tin	7440-31-5	98.500%	4.0779000	4.14
				Silver	7440-22-4	1.000%	0.0414000	
				Copper	7440-50-8	0.500%	0.0207000	
		Total weight	1.33					

This Document was updated on: 2025/11/19

Important remarks:

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