



Material Content Data Sheet



Halogen-Free

Sales Product Name	SPP21N50C3	Issued	16. April 2021
MA#	MA005405293		
Package	PG-TO220-3-123	Weight*	2039.68 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	11.919	0.58	0.58	5844	5844
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		400	
	non noble metal	copper	7440-50-8	815.335	39.99	40.04	399737	400257
wire	non noble metal	aluminium	7429-90-5	3.313	0.16	0.16	1624	1624
encapsulation	organic material	carbon black	1333-86-4	2.947	0.14		1445	
	miscellaneous	miscellaneous	-	2.947	0.14		1445	
	organic material	phenol formaldehyde resin	9003-35-4	35.361	1.73		17337	
	inorganic material	silicondioxide	14808-60-7	47.148	2.31		23115	
	non noble metal	metal hydroxide	-	47.148	2.31		23115	
	plastics	epoxy resin	29690-82-2	70.722	3.47		34673	
	inorganic material	silicondioxide	60676-86-0	383.077	18.78	28.88	187813	288943
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10522	10522
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	865	865
solder	non noble metal	antimony	7440-36-0	0.524	0.03		257	
	noble metal	silver	7440-22-4	1.310	0.06		642	
	non noble metal	tin	7440-31-5	3.406	0.17	0.26	1670	2569
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		289	
	non noble metal	copper	7440-50-8	589.466	28.90	28.94	289000	289376
*deviation	< 10%	Sum in total:				100.00		1000000

Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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