

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SPP20N60C3	**Issued**	03. June 2021
MA#	MA005405297		
Package	PG-TO220-3-123	**Weight***	2039.83 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	12.312	0.60	0.60	6036	6036
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	39.97	40.02	399708	400228
wire	non noble metal	aluminium	7429-90-5	3.286	0.16	0.16	1611	1611
encapsulation	organic material	carbon black	1333-86-4	2.945	0.14		1444	
	miscellaneous	miscellaneous	-	2.945	0.14		1444	
	organic material	phenol formaldehyde resin	9003-35-4	35.341	1.73		17325	
	inorganic material	silicondioxide	14808-60-7	47.121	2.31		23100	
	non noble metal	metal hydroxide	-	47.121	2.31		23100	
	plastics	epoxy resin	29690-82-2	70.681	3.47		34651	
	inorganic material	silicondioxide	60676-86-0	382.857	18.77	28.87	187690	288754
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	0.537	0.03		263	
	noble metal	silver	7440-22-4	1.342	0.07		658	
	non noble metal	tin	7440-31-5	3.489	0.17	0.27	1710	2631
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	288977	289353
*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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