

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SPP21N50C3	**Issued**	30. March 2021
MA#	MA001243190		
Package	PG-TO220-3-123	**Weight***	2030.52 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	0.59	0.59	5870	5870
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.16	40.21	401540	402063
wire	non noble metal	aluminium	7429-90-5	3.313	0.16	0.16	1632	1632
encapsulation	organic material	carbon black	1333-86-4	2.321	0.11		1143	
	plastics	epoxy resin	-	67.302	3.31		33145	
	inorganic material	silicondioxide	60676-86-0	510.566	25.14	28.56	251445	285733
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10570	10570
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	non noble metal	antimony	7440-36-0	0.525	0.03		258	
	noble metal	silver	7440-22-4	1.312	0.06		646	
	non noble metal	tin	7440-31-5	3.410	0.17	0.26	1679	2583
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.03	29.07	290302	290680
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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