



## Material Content Data Sheet



Halogen-Free

Sales Product Name	SPP20N60C3	Issued	31. March 2021
MA#	MA001385254		
Package	PG-TO220-3-123	Weight*	2030.68 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	12.312	0.61	0.61	6063	6063
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	40.14	40.19	401508	402031
wire	non noble metal	aluminium	7429-90-5	3.286	0.16	0.16	1618	1618
encapsulation	organic material	carbon black	1333-86-4	2.319	0.11		1142	
	plastics	epoxy resin	-	67.263	3.31		33123	
	inorganic material	silicondioxide	60676-86-0	510.273	25.13	28.55	251281	285546
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10569	10569
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	868	868
solder	non noble metal	antimony	7440-36-0	0.537	0.03		265	
	noble metal	silver	7440-22-4	1.344	0.07		662	
	non noble metal	tin	7440-31-5	3.493	0.17	0.27	1720	2647
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	290280	290658
*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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