

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SPA20N60C3	**Issued**	14. February 2022
MA#	MA005619228		
Package	PG-TO220-3-313	**Weight***	2205.75 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	0.56	0.56	5582	5582
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		410	
	non noble metal	copper	7440-50-8	902.149	40.90	40.95	408998	409531
wire	non noble metal	aluminium	7429-90-5	3.705	0.17	0.17	1680	1680
encapsulation	organic material	carbon black	1333-86-4	2.323	0.11		1053	
	plastics	epoxy resin	-	212.523	9.63		96349	
	inorganic material	silicondioxide	60676-86-0	911.603	41.32	51.06	413284	510686
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3571	3571
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	751	751
solder	non noble metal	antimony	7440-36-0	0.537	0.02		243	
	noble metal	silver	7440-22-4	1.342	0.06		608	
	non noble metal	tin	7440-31-5	3.489	0.16	0.24	1582	2433
heatspreader	inorganic material	phosphorus	7723-14-0	0.044			20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.57	6.58	65680	65766
*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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