



Material Content Data Sheet



Sales Product Name		SPA20N60CFD		Issued		20. July 2018		
MA#		MA001368090						
Package		PG-TO220-3-313		Weight*		2209.26 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	13.322	0.60	0.60	6030	6030
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		409	
	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	copper	7440-50-8	902.149	40.83	40.88	408349	408881
wire	non noble metal	aluminium	7429-90-5	2.855	0.13	0.13	1292	1292
encapsulation	organic material	carbon black	1333-86-4	2.338	0.11		1058	
	plastics	epoxy resin	-	213.158	9.65		96484	
	inorganic material	silicondioxide	60676-86-0	913.851	41.36	51.12	413645	511187
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3610	3610
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	759	759
solder	non noble metal	antimony	7440-36-0	0.570	0.03		258	
	noble metal	silver	7440-22-4	1.424	0.06		645	
	non noble metal	tin	7440-31-5	3.703	0.17	0.26	1676	2579
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		66	
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	copper	7440-50-8	144.874	6.56	6.57	65576	65662
*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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