



Material Content Data Sheet



Sales Product Name		SPA20N60CFD		Issued		27. September 2017		
MA#		MA001368852						
Package		PG-TO220-3-313		Weight*		2255.26 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	0.59	0.59	5907	5907
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		120	
	non noble metal	iron	7439-89-6	0.903	0.04		401	
	non noble metal	copper	7440-50-8	902.149	40.00	40.05	400021	400542
	non noble metal	aluminium	7429-90-5	2.960	0.13	0.13	1313	1313
wire	non noble metal	aluminium	7429-90-5	2.960	0.13	0.13	1313	1313
encapsulation	organic material	carbon black	1333-86-4	2.426	0.11		1076	
	plastics	epoxy resin	-	221.767	9.83		98333	
	inorganic material	silicondioxide	60676-86-0	951.164	42.19	52.13	421755	521164
leadfinish	non noble metal	tin	7440-31-5	7.877	0.35	0.35	3493	3493
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	734	734
solder	non noble metal	antimony	7440-36-0	0.570	0.03		253	
	noble metal	silver	7440-22-4	1.424	0.06		631	
	non noble metal	tin	7440-31-5	3.703	0.16	0.25	1642	2526
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		19	
	non noble metal	iron	7439-89-6	0.145	0.01		64	
	non noble metal	copper	7440-50-8	144.874	6.42	6.43	64238	64321
*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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