



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA20N60CFD		<b>Issued</b>		26. September 2017		
<b>MA#</b>		MA000925624						
<b>Package</b>		PG-TO220-3-121		<b>Weight*</b>		2263.52 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	13.322	0.59	0.59	5886	5886
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		304	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		91	
	non noble metal	copper	7440-50-8	686.221	30.32	30.36	303165	303560
wire	non noble metal	aluminium	7429-90-5	26.795	1.18	1.18	11838	11838
encapsulation	organic material	carbon black	1333-86-4	2.258	0.10		998	
	plastics	epoxy resin	-	205.700	9.09		90876	
	inorganic material	silicondioxide	60676-86-0	881.716	38.95	48.14	389531	481406
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3509	3509
plating	non noble metal	nickel	7440-02-0	0.305	0.01		135	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	135
solder	non noble metal	antimony	7440-36-0	0.570	0.03		252	
	noble metal	silver	7440-22-4	1.424	0.06		629	
	non noble metal	tin	7440-31-5	3.703	0.16	0.25	1636	2517
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		191	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		57	
	non noble metal	copper	7440-50-8	432.110	19.09	19.12	190901	191149
*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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