



## Material Content Data Sheet



<b>Sales Product Name</b>		SPA20N60C3		<b>Issued</b>		10. May 2016		
<b>MA#</b>		MA001004024						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2263.30 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	0.54	0.54	5440	5440
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	303195	303590
wire	non noble metal	aluminium	7429-90-5	26.432	1.17	1.17	11679	11679
encapsulation	organic material	carbon black	1333-86-4	2.256	0.10		997	
	plastics	epoxy resin	-	205.926	9.10		90985	
	inorganic material	silicondioxide	60676-86-0	882.968	39.02	48.22	390125	482108
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	0.537	0.02		237	
	noble metal	silver	7440-22-4	1.342	0.06		593	
	non noble metal	tin	7440-31-5	3.489	0.15	0.23	1541	2371
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	190920	191168
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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