



## Material Content Data Sheet



<b>Sales Product Name</b>		SPW20N60CFD		<b>Issued</b>		29. August 2013		
<b>MA#</b>		MA001082468						
<b>Package</b>		PG-TO247-3-41		<b>Weight*</b>		6050.75 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	13.322	0.22	0.22	2202	2202
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		88	
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	copper	7440-50-8	529.068	8.74	8.75	87439	87553
wire	non noble metal	aluminium	7429-90-5	4.210	0.07	0.07	696	696
encapsulation	organic material	carbon black	1333-86-4	19.943	0.33		3296	
	plastics	epoxy resin	-	378.925	6.26		62624	
	inorganic material	silicondioxide	60676-86-0	1595.473	26.37	32.96	263682	329602
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5268	5268
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4803	4803
solder	non noble metal	antimony	7440-36-0	0.570	0.01		94	
	noble metal	silver	7440-22-4	1.424	0.02		235	
	non noble metal	tin	7440-31-5	3.703	0.06	0.09	612	941
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		171	
	non noble metal	iron	7439-89-6	3.442	0.06		569	
	non noble metal	copper	7440-50-8	3438.006	56.82	56.90	568195	568935
*deviation	< 10%				Sum in total:	100,00		1000000

### Important Remarks:

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