



Material Content Data Sheet



Sales Product Name		SPW11N60CFD		Issued		23. February 2016		
MA#		MA001483274						
Package		PG-TO247-3-21		Weight*		5997.10 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	7.017	0.12	0.12	1170	1170
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		88	
	inorganic material	phosphorus	7723-14-0	0.159	0.00		27	
	non noble metal	copper	7440-50-8	529.068	8.82	8.83	88221	88336
wire	non noble metal	aluminium	7429-90-5	12.731	0.21	0.21	2123	2123
encapsulation	organic material	carbon black	1333-86-4	21.347	0.36		3560	
	inorganic material	antimonytrioxide	1309-64-4	44.635	0.74		7443	
	plastics	brominated resin	-	50.457	0.84		8414	
	plastics	epoxy resin	-	368.722	6.15		61483	
	inorganic material	silicondioxide	60676-86-0	1455.480	24.27	32.36	242698	323598
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5315	5315
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4846	4846
solder	non noble metal	antimony	7440-36-0	0.353	0.01		59	
	noble metal	silver	7440-22-4	0.883	0.01		147	
	non noble metal	tin	7440-31-5	2.296	0.04	0.06	383	589
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		172	
	non noble metal	iron	7439-89-6	3.442	0.06		574	
	non noble metal	copper	7440-50-8	3438.006	57.33	57.41	573277	574023
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

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This product is in compliance with EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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