



Material Content Data Sheet



Sales Product Name				SPW20N60CFD		Issued		27. September 2017	
MA#				MA000925630					
Package				PG-TO247-3-21		Weight*		6004.41 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	2219	2219	
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	8.81	8.82	88113	88227	
wire	non noble metal	aluminium	7429-90-5	44.696	0.74	0.74	7444	7444	
encapsulation	organic material	carbon black	1333-86-4	20.983	0.35		3495		
	inorganic material	antimonytrioxide	1309-64-4	43.873	0.73		7307		
	plastics	brominated resin	-	49.595	0.83		8260		
	plastics	epoxy resin	-	362.428	6.04		60360		
	inorganic material	silicondioxide	60676-86-0	1430.637	23.83	31.78	238265	317687	
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5308	5308	
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4841	4841	
solder	non noble metal	antimony	7440-36-0	0.570	0.01		95		
	noble metal	silver	7440-22-4	1.424	0.02		237		
	non noble metal	tin	7440-31-5	3.703	0.06	0.09	617	949	
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		172		
	non noble metal	iron	7439-89-6	3.442	0.06		573		
	non noble metal	copper	7440-50-8	3438.006	57.26	57.34	572580	573325	
*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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